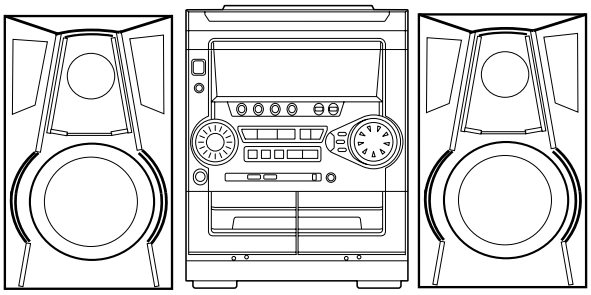
aiwa SERVICE

NSX-SZ30
NSX-SZ36

HS,HT

LH



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 6ZM-3 PR2NM / ZZM-3 YPR1NM
BASIC CD MECHANISM : AZG-1

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-SZ30	CX-NSZ30	SX-NSZ52	RC-ZAS01
NSX-SZ36	CX-NSZ36		RC-ZAS02

SYSTEM	TAPE MECHANISM	CD MECHANISM
NSX-SZ30	6ZM-3 PR2NM	AZG-1 ZD3RDM
NSX-SZ36	ZZM-3 YPR1NM	AZG-1 YZD3RDM

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” (S/M Code No. 09-007-423-3T3).
- If requiring information about the CD mechanism, see Service Manual of AZG-1, (S/M Code No. 09-001-335-3N8).

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S/M Code No. 09-007-423-3R1

REVISION DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM/MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<SW tuner section> <HT only>

Tuning range	5.730 MHz to 17.900 MHz
Usable sensitivity	40 µV (IEC)
Antenna	Wire antenna

<Amplifier section>

Power output	LH: Rated: 65 W + 65 W (6 ohms, THD 1%, 1 kHz) Reference: 80 W + 80 W (6 ohms, THD 10%, 1 kHz) HS,HT: Rated: 40 W + 40 W (6 ohms, THD 1%, 1 kHz) Reference: 50 W + 50 W (6 ohms, THD 10%, 1 kHz)
Total harmonic distortion	0.08% (25 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 500 mV HS,HT only: MIC: 1.0 mV (10 K ohms)
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15 kHz
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/Playback head x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)

<General>

Power requirements	LH,HT: 120 V/220-230 V/240 V AC (switchable), 50/60 Hz HS: 220 V AC, 60 Hz
Power consumption	LH: 125 W HS,HT: 80 W
Power consumption in standby mode	With power-economizing mode off LH: 17 W HS,HT: 13 W With power-economizing mode on 0.9 W
Dimensions of main unit (W x H x D)	260 x 328 x 335 mm
Weight of main unit	6.3 kg

<Speaker system SX-NSZ52>

Speaker system	3 way, bass reflex (magnetic shielded type)
Speaker units	Woofer: 140 mm cone type Tweeter: 60mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 270 mm
Weight	4.0 kg

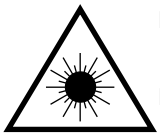
• Design and specifications are subject to change without notice.

• The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound,Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

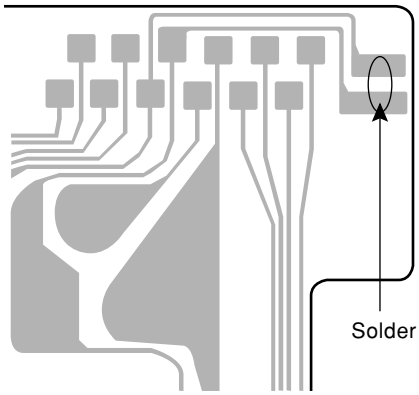
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

(KSS – 213F)
PICKUP Assy P.C.B.



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

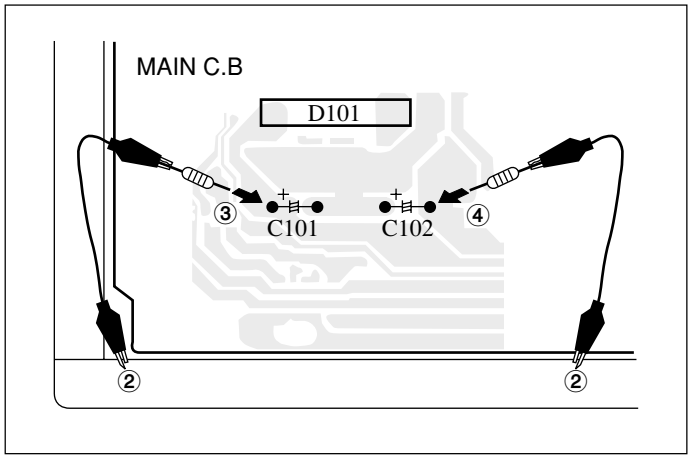


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

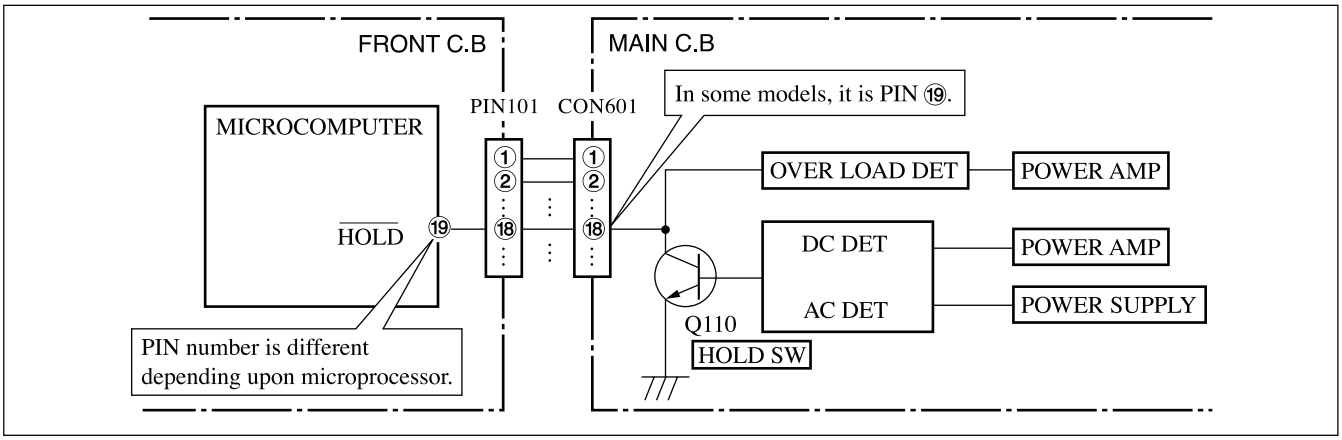


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

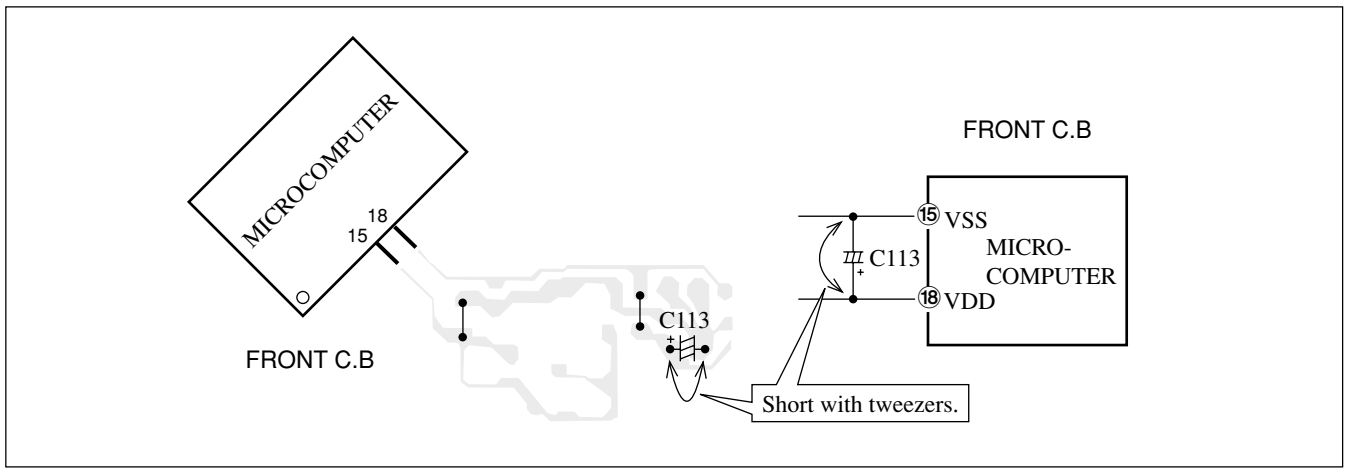


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-070-127-110		IC,LC72131 D
	87-A21-398-010		IC,STK490-110
	87-A21-401-040		C-IC,M61503FP
	87-A21-482-010		IC,RPM6938-H4
	87-A21-560-010		IC,LA1844L-A
	87-A21-419-040		C-IC,NJM14558MD-TE2
	8A-NF9-604-110		C-IC,UPD780226GF-019-3BA
	87-A21-269-010		IC,EW732<LH>
	87-020-454-010		IC,DN6851<HS,HT>
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-026-245-080		TR,DTC114ES
	87-A30-198-080		TR,KTC3199GR
	87-A30-107-070		C-TR,CMBT5401
	87-A30-106-040		C-TR,CMBT5551
	87-A30-091-080		FET,2SJ460
	87-A30-062-080		C-TR,KRC104S
	87-A30-090-080		FET,2SK2541
	89-333-317-880		TR,2SC3331 (0.5W)
	87-A30-318-080		TR,CSA952K
	87-A30-329-080		TR,CD1585BC
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-468-080		C-TR,KRC102S-RTK
	87-A30-087-080		C-FET,2SK2158
	87-A30-086-040		C-TR,CSD1306E<HT>
	89-503-602-080		C-FET,2SK360E<HT>
	87-A30-234-080		TR,CSC4115BC
	89-327-143-080		TR,2SC2714(O)(0.1W)
	87-A30-072-080		C-TR,RT1P 144C
DIODE			
	87-A40-455-090		DIODE,RL203 GW
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-776-080		ZENER,UZ27BSD
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-752-080		ZENER,UZ6.2BSC
	87-A40-739-080		ZENER,UZ2.7BSA
	87-020-465-080		DIODE,1SS133
	87-A40-854-080		ZENER,UZ15BSA
	87-A40-535-080		DIODE,1N5393-GOODARK<HS,HT>
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C5	87-012-368-080		C-CAP,S 0.1-50 F
C6	87-012-368-080		C-CAP,S 0.1-50 F
C9	87-012-368-080		C-CAP,S 0.1-50 F
C10	87-012-368-080		C-CAP,S 0.1-50 F
C11	87-012-368-080		C-CAP,S 0.1-50 F
C12	87-012-368-080		C-CAP,S 0.1-50 F
C19	87-A12-036-000		CAP,E 2200-63 SMG
C20	87-A12-036-000		CAP,E 2200-63 SMG
C21	87-A10-520-000		CAP,E 3300-35 M SMG
C22	87-A10-520-000		CAP,E 3300-35 M SMG
C25	87-010-385-080		CAP, ELECT 220-25V
C26	87-010-247-080		CAP, ELECT 100-50V
C30	87-010-430-080		CAP, ELECT 100-63
C31	87-010-263-080		CAP, ELECT 100-10V
C32	87-010-197-080		CAP, CHIP 0.01-25 K B
C34	87-010-247-080		CAP, ELECT 100-50V
C35	87-010-380-080		CAP, ELECT 47-16 M
C36	87-010-381-080		CAP, ELECT 330-16V
C38	87-010-197-080		CAP, CHIP 0.01-25 K B
C60	87-010-403-080		CAP, ELECT 3.3-50V
C61	87-010-260-080		CAP, ELECT 47-25V
C97	87-010-196-080		CHIP CAPACITOR,0.1-25
C101	87-010-185-080		C-CAP,S 3900P-50 B
C102	87-010-185-080		C-CAP,S 3900P-50 B
C103	87-010-545-080		CAP,E 0.22-50 M
C104	87-010-545-080		CAP,E 0.22-50 M
C105	87-010-187-080		CAP CHIP S5600P
C106	87-010-187-080		CAP CHIP S5600P
C107	87-010-404-080		CAP, ELECT 4.7-50V
C108	87-010-404-080		CAP, ELECT 4.7-50V
C109	87-010-179-080		C-CAP,S 1200P-50 K B
C110	87-010-179-080		C-CAP,S 1200P-50 K B
C111	87-010-391-080		CAP,E 10-35 SME
C112	87-010-391-080		CAP,E 10-35 SME
C113	87-010-866-080		CAP, ELECT 10-63<LH>
C113	87-010-405-080		CAP, ELECT 10-50V<HS,HT>
C114	87-010-866-080		CAP, ELECT 10-63<LH>
C114	87-010-405-080		CAP, ELECT 10-50V<HS,HT>
C119	87-012-369-080		C-CAP,S 0.047-50 ZF<HT>
C119	87-016-369-080		C-CAP,S 0.033-25 KB<LH,HS>
C120	87-012-369-080		C-CAP,S 0.047-50 ZF<HT>
C120	87-016-369-080		C-CAP,S 0.033-25 KB<LH,HS>
C125	87-012-368-080		C-CAP,S 0.1-50 F
C126	87-012-368-080		C-CAP,S 0.1-50 F
C127	87-012-368-080		C-CAP,S 0.1-50 F
C128	87-012-368-080		C-CAP,S 0.1-50 F
C129	87-010-191-080		C-CAP,S 0.015-50 F
C130	87-010-191-080		C-CAP,S 0.015-50 F
C131	87-010-197-080		CAP, CHIP 0.01-25 K B
C132	87-010-197-080		CAP, CHIP 0.01-25 K B
C133	87-010-186-080		CAP,CHIP 4700P-50 K
C140	87-010-182-080		C-CAP,S 2200P-50 B
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C239	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-010-178-080		C-CAP,S 1000-50 K B
C302	87-010-178-080		C-CAP,S 1000-50 K B
C303	87-010-178-080		C-CAP,S 1000-50 K B
C304	87-010-178-080		C-CAP,S 1000-50 K B
C307	87-010-263-080		CAP, ELECT 100-10V
C308	87-010-263-080		CAP, ELECT 100-10V
C309	87-010-318-080		C-CAP,S 47P-50 CH
C310	87-010-318-080		C-CAP,S 47P-50 CH
C313	87-010-188-080		CAP,CHIP 6800P
C314	87-010-188-080		CAP,CHIP 6800P
C315	87-010-263-080		CAP, ELECT 100-10V
C317	87-010-546-080		CAP, ELECT 0.33-50V
C318	87-010-546-080		CAP, ELECT 0.33-50V
C326	87-010-198-080		CAP, CHIP 0.022-25 K
C327	87-012-368-080		C-CAP,S 0.1-50 F
C360	87-010-401-080		CAP, ELECT 1-50V
C399	87-012-140-080		C-CAP,S 470P-50 J
C401	87-010-544-080		CAP, ELECT 0.1-50V
C402	87-010-544-080		CAP, ELECT 0.1-50V
C403	87-010-321-080		CHIP CAPACITOR,82P(J)
C404	87-010-321-080		CHIP CAPACITOR,82P(J)
C405	87-010-197-080		CAP, CHIP 0.01-25 K B
C406	87-010-197-080		CAP, CHIP 0.01-25 K B
C407	87-010-197-080		CAP, CHIP 0.01-25 K B
C408	87-010-197-080		CAP, CHIP 0.01-25 K B
C409	87-010-182-080		C-CAP,S 2200P-50 B
C410	87-010-182-080		C-CAP,S 2200P-50 B
C411	87-010-405-080		CAP, ELECT 10-50V
C412	87-010-405-080		CAP, ELECT 10-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C452	87-010-382-080		CAP, ELECT 22-25V
C453	87-010-183-080		C-CAP,S 2700P-50 B
C454	87-010-183-080		C-CAP,S 2700P-50 B
C455	87-010-183-080		C-CAP,S 2700P-50 B
C456	87-010-197-080		CAP, CHIP 0.01-25 K B
C460	87-010-196-080		CHIP CAPACITOR,0.1-25
C461	87-012-158-080		C-CAP,S 390P-50 CH
C462	87-012-158-080		C-CAP,S 390P-50 CH
C605	87-010-179-080		CAP,CHIP S 1200P-50 KB<HS,HT>
C605	87-010-184-080		CAP,CHIP S 3300P-50 KB<LH>
C606	87-010-179-080		CAP,CHIP S 1200P-50 KB<HS,HT>
C606	87-010-184-080		CAP,CHIP S 3300P-50 KB<LH>
C609	87-010-213-080		C-CAP,S 0.015-50 B
C610	87-010-213-080		C-CAP,S 0.015-50 B
C611	87-010-545-080		CAP, ELECT 0.22-50V
C612	87-010-545-080		CAP, ELECT 0.22-50V
C613	87-010-545-080		CAP, ELECT 0.22-50V
C614	87-010-545-080		CAP, ELECT 0.22-50V
C615	87-010-154-080		CAP CHIP 10P-50 CH
C616	87-010-221-080		CAP, ELECT 470-10 M
C617	87-010-221-080		CAP, ELECT 470-10 M
C618	87-010-405-080		CAP, ELECT 10-50V
C630	87-016-669-080		C-CAP,S 0.1-25 K B
C631	87-010-185-080		C-CAP,S 3900P-50 B
C632	87-010-185-080		C-CAP,S 3900P-50 B
C633	87-016-369-080		C-CAP,S 0.033-25 K B
C634	87-016-369-080		C-CAP,S 0.033-25 K B
C669	87-010-322-080		C-CAP,S 100P-50 CH
C670	87-010-322-080		C-CAP,S 100P-50 CH
C671	87-010-196-080		CHIP CAPACITOR,0.1-25<HS,HT>
C672	87-010-196-080		CHIP CAPACITOR,0.1-25<HS,HT>
C673	87-010-182-080		C-CAP,S 2200P-50 B<HS,HT>
C677	87-010-197-080		CAP, CHIP 0.01-25 K B
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-010-197-080		CAP, CHIP 0.01-25 K B
C782	87-010-197-080		CAP, CHIP 0.01-25 K B
C783	87-010-197-080		CAP, CHIP 0.01-25 K B
C784	87-010-197-080		CAP, CHIP 0.01-25 K B
C785	87-010-197-080		CAP, CHIP 0.01-25 K B
C786	87-010-197-080		CAP, CHIP 0.01-25 K B
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-A10-801-080		C-CAP,S 0.022-16 J B<HS,HT>
C789	87-A12-052-080		C-CAP,S 0.033-25 J B<LH>
C790	87-A10-801-080		C-CAP,S 0.022-16 J B<HS,HT>
C790	87-A12-052-080		C-CAP,S 0.033-25 J B<LH>
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP, CHIP 0.01-25 K B
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-010-197-080		CAP, CHIP 0.01-25 K B
C796	87-010-197-080		CAP, CHIP 0.01-25 K B
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-010-197-080		CAP, CHIP 0.01-25 K B
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-012-369-080		C-CAP,S 0.047-50F
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-010-194-080		CAP, CHIP 0.047-25 Z F
C803	87-010-198-080		CAP, CHIP 0.022-25 K B
C804	87-010-263-080		CAP, ELECT 100-10V
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C814	87-010-197-080		CAP, CHIP 0.01-25 K B
C815	87-010-400-080		CAP, ELECT 0.47-50V
C816	87-010-400-080		CAP, ELECT 0.47-50V
C821	87-010-405-080		CAP, ELECT 10-50V
C823	87-010-177-080		C-CAP,S 820P-50 SL
C824	87-010-404-080		CAP, ELECT 4.7-50 M
C825	87-010-596-080		CAP, S 0.047-16
C842	87-010-197-080		CAP, CHIP 0.01-25 K B
C844	87-010-197-080		CAP, CHIP 0.01-25 K B
C850	87-010-260-080		CAP, ELECT 47-25V
C851	87-010-197-080		CAP, CHIP 0.01-25 K B
C852	87-010-197-080		CAP, CHIP 0.01-25 K B
C853	87-010-197-080		CAP, CHIP 0.01-25 K B
C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-197-080		CAP, CHIP 0.01-25 K B
C940	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C941	87-010-314-080		C-CAP,S 22P-50V<HT>
C943	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C945	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C946	87-010-971-080		C-CAP,S 4700P-50 B J<HT>
C947	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C948	87-010-148-080		CAP, CHIP S 4P-50<HT>
C952	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C953	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C954	87-010-400-080		CAP, ELECT 0.47-50V<HT>
C956	87-010-263-080		CAP, ELECT 100-10V<HT>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25<LH,HS>
C961	87-010-152-080		C-CAP,S 8P-50 CH<LH,HS>
C962	87-010-401-080		CAP, ELECT 1-50V<HT>
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C964	87-010-854-080		C-CAP,S 560PCH<HT>
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-010-197-080		CAP, CHIP 0.01-25 K B
C974	87-010-197-080		CAP, CHIP 0.01-25 K B
C979	87-010-322-080		C-CAP,S 100P-50 CH
C981	87-010-260-080		CAP, ELECT 47-25V
C982	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP, CHIP 0.01-25 K B
C984	87-010-197-080		CAP, CHIP 0.01-25 K B
C987	87-010-197-080		CAP, CHIP 0.01-25 K B
C989	87-010-197-080		CAP, CHIP 0.01 DM<HT>
C991	87-010-312-080		C-CAP,S 15P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH
C993	87-010-178-080		CHIP CAP 1000P-50 K B
C995	87-010-178-080		CHIP CAP 1000P-50 K B
C997	87-010-196-080		CHIP CAPACITOR,0.1-25
C998	87-010-260-080		CAP, ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A
CF832	87-008-261-010		FILTER, SFE10.7MA5-A
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CON351	86-ZM3-605-110		CON ASSY,8P-PB
D951	87-A40-618-080		VARI-CAP,SVC 348(S/T)<HT>
FC602	88-906-251-110		FF-CABLE,6P 1.25
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM<HS,HT>
FFE831	A8-8ZA-191-030		8ZA-1 YFEUNM<LH>
J202	87-A60-488-010		JACK,DIA6.3 BLK ST W/SW KM16AT
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
J940	87-A60-633-010		CONN,2P H 2.5MM JMT<HT>
L101	87-003-383-010		COIL,1UH-S
L102	87-003-383-010		COIL,1UH-S
L451	87-007-342-010		COIL,OSC 85K BIAS
L801	87-A50-540-010		COIL,FM DET(TOK)
L802	87-A91-552-010		FLTR,CFMT-450AL (TOK)<HT>
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)<LH,HS>
L811	87-005-847-080		COIL,2.2UH(CECS)
L832	87-005-847-080		COIL,2.2UH(CECS)
L941	87-A50-022-010		COIL,ANT SW 7.96 MHZ(COI)<HT>
L942	87-A50-550-010		COIL,OSC SW-2N(COI)<HT>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L943	87-A50-522-080		COIL,1MH K CEC<HT>
L944	87-A50-159-010		COIL,10MH K C2B<HT>
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)<LH,HS>
L952	87-A50-430-010		COIL,ANT MW(3BSW)<HT>
L953	87-A50-431-010		COIL,OSC MW(3BSW)<HT>
R129	87-A00-669-080		RES,M/F 0.22-2W J RA<LH>
R130	87-A00-669-080		RES,M/F 0.22-2W J RA<LH>
R131	87-A00-669-080		RES,M/F 0.22-2W J RA
R132	87-A00-669-080		RES,M/F 0.22-2W J RA
R143	87-A00-440-050		RES,220-1/2W J RP
R144	87-A00-440-050		RES,220-1/2W J RP
R145	87-A00-440-050		RES,220-1/2W J RP
R146	87-A00-440-050		RES,220-1/2W J RP
R653	87-A11-144-080		CAP,TC U 0.1-50 K B
R654	87-A11-144-080		CAP,TC U 0.1-50 K B
R790	87-010-197-080		CAP, CHIP 0.01 DM
R991	87-010-322-080		C-CAP,S 100P-50 CH
R993	87-010-322-080		C-CAP,S 100P-50 CH
R995	87-010-322-080		C-CAP,S 100P-50 CH
SFR451	87-A90-432-080		SFR,30K H NVZ6TLTA
SFR452	87-A90-432-080		SFR,30K H NVZ6TLTA
TC941	87-011-254-080		TRIMER,20P LAR<HT>
TC943	87-011-253-080		TRIMER,30P LAR<HT>
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C101	87-010-196-080		CHIP CAPACITOR,0.1-25
C102	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-010-498-040		CAP,E 10-16 M 5L
C104	87-010-196-080		CHIP CAPACITOR,0.1-25
C107	87-010-493-040		CAP,E 0.47-50 M 5L
C108	87-012-393-080		C-CAP,S 0.22-16 R K
C153	87-010-198-080		CAP, CHIP 0.022-25 K B
C154	87-010-246-040		CAP,E 47-35 SME
C155	87-010-404-040		CAP,E 4.7-50 SME
C156	87-010-404-040		CAP,E 4.7-50 SME
C361	87-010-178-080		CHIP CAP 1000P-50 K B
C362	87-010-178-080		CHIP CAP 1000P-50 K B
C371	87-010-178-080		CHIP CAP 1000P-50 K B
C372	87-010-178-080		CHIP CAP 1000P-50 K B
C401	87-010-186-080		CAP,CHIP 4700P<HS,HT>
C402	87-010-112-040		CAP,E 100-16<HS,HT>
C403	87-010-545-040		CAP,E 0.22-50 SME<HS,HT>
C404	87-010-320-080		CHIP CAP 68P<HS,HT>
C405	87-010-544-040		CAP,E 0.1-50 SME<HS,HT>
C406	87-010-544-040		CAP,E 0.1-50 SME<HS,HT>
C407	87-010-405-040		CAP,E 10-50<HS,HT>
C408	87-010-322-080		C-CAP,S 100P-50 CH<HS,HT>
C409	87-010-265-040		CAP,E 33-16 SME<HS,HT>
C410	87-012-369-080		C-CAP,S 0.047-50F<HS,HT>
C413	87-010-177-080		C-CAP,S 820P-50 SL<HS,HT>
C601	87-010-382-040		CAP,E 22-25 SME
C801	87-010-195-080		C-CAP,S 0.068-25 F
C802	87-010-195-080		C-CAP,S 0.068-25 F
C803	87-010-402-040		CAP,E 2.2-50 SME
C804	87-010-402-040		CAP,E 2.2-50 SME
C805	87-010-196-080		CHIP CAPACITOR,0.1-25
C806	87-010-196-080		CHIP CAPACITOR,0.1-25
C901	87-010-322-080		C-CAP,S 100P-50 CH
C902	87-010-322-080		C-CAP,S 100P-50 CH
C903	87-010-322-080		C-CAP,S 100P-50 CH
C904	87-010-322-080		C-CAP,S 100P-50 CH
C905	87-010-322-080		C-CAP,S 100P-50 CH
C906	87-010-322-080		C-CAP,S 100P-50 CH
C907	87-010-322-080		C-CAP,S 100P-50 CH
C908	87-010-322-080		C-CAP,S 100P-50 CH
C909	87-010-322-080		C-CAP,S 100P-50 CH
C910	87-010-322-080		C-CAP,S 100P-50 CH
C911	87-010-178-080		CHIP CAP 1000P-50 K B
C912	87-010-196-080		CHIP CAPACITOR,0.1-25
C913	87-010-248-040		CAP,E 220-10 SME
C914	87-010-248-040		CAP,E 220-10 SME
C915	87-010-196-080		CHIP CAPACITOR,0.1-25
C916	87-010-196-080		CHIP CAPACITOR,0.1-25
C917	87-010-196-080		CHIP CAPACITOR,0.1-25
C919	87-010-197-080		CAP, CHIP 0.01-25 K B
C920	87-012-369-080		C-CAP,S 0.047-50F
C921	87-010-186-080		CAP,CHIP 4700P-50 K B
C951	87-010-312-080		C-CAP,S 15P-50 CH
C952	87-012-155-080		C-CAP 180P-50CH
C953	87-012-140-080		CAP 470P-50 CH
C961	87-010-378-040		CAP,E 10-16 M SME
C962	87-012-157-080		C-CAP,S 330P-50 CH
C963	87-010-196-080		CHIP CAPACITOR,0.1-25
CN104	87-A60-057-010		CONN,11P V 9604S-11C
CN701	87-099-720-010		CONN,30P BLK TYK-B(P)
CN731	87-099-015-010		CONN,13P V BLK 6216V
EMI401	87-008-372-080		FILTER, EMI BL OIRNI<HS,HT>
FC104	88-911-101-110		FF-CABLE,11P 1.25
FC731	88-913-301-110		FF-CABLE,13P-1.25
FL901	8A-NF9-605-010		FL,HNA-10SS12
J401	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM<HS,HT>
L951	87-A50-434-010		COIL,CLK 4.19M(TOKO)
LED201	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED202	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED203	87-A40-619-040		LED,SLR-56PT-T31-W GRN<HS,HT>
LED204	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED205	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED206	87-A40-619-040		LED,SLR-56PT-T31-W GRN<HS,HT>
LED209	87-A40-317-080		LED,SLR-342VCT31 RED
LED210	87-A40-619-040		LED,SLR-56PT-T31-W GRN<LH>
S301	87-A90-164-080		SW,TACT SKQAB(N)
S302	87-A90-164-080		SW,TACT SKQAB(N)
S303	87-A90-164-080		SW,TACT SKQAB(N)
S304	87-A90-164-080		SW,TACT SKQAB(N)
S305	87-A90-164-080		SW,TACT SKQAB(N)
S306	87-A90-164-080		SW,TACT SKQAB(N)
S307	87-A90-164-080		SW,TACT SKQAB(N)
S308	87-A90-164-080		SW,TACT SKQAB(N)
S309	87-A90-164-080		SW,TACT SKQAB(N)
S321	87-A90-164-080		SW,TACT SKQAB(N)
S322	87-A90-164-080		SW,TACT SKQAB(N)
S323	87-A90-164-080		SW,TACT SKQAB(N)
S324	87-A90-164-080		SW,TACT SKQAB(N)
S325	87-A90-164-080		SW,TACT SKQAB(N)
S326	87-A90-164-080		SW,TACT SKQAB(N)
S341	87-A90-164-080		SW,TACT SKQAB(N)
S342	87-A90-164-080		SW,TACT SKQAB(N)
S343	87-A90-164-080		SW,TACT SKQAB(N)
S344	87-A90-164-080		SW,TACT SKQAB(N)
S345	87-A90-164-080		SW,TACT SKQAB(N)
S346	87-A90-164-080		SW,TACT SKQAB(N)
S347	87-A90-164-080		SW,TACT SKQAB(N)
S348	87-A90-164-080		SW,TACT SKQAB(N)
S349	87-A90-164-080		SW,TACT SKQAB(N)
S350	87-A90-164-080		SW,TACT SKQAB(N)
S361	87-A91-633-010		SW,RTRY XRE012103PVB25FINA 1-2
S371	87-A91-632-010		SW,RTRY XRE012103PVB25FINB 1-2
VR401	86-NFA-607-010		VR,RTRY 10K15AX1 1V XV0121PVN<HS,HT>

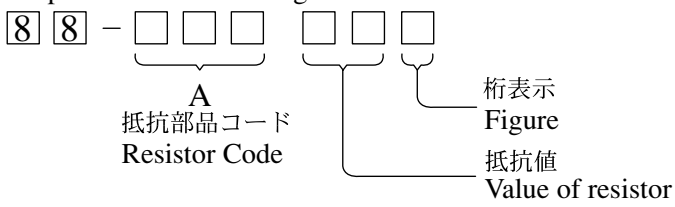
PT C.B

C1	87-010-387-080		CAP,E 470-25 SME
C31	87-010-403-080		CAP, ELECT 3.3-50V
CN1	87-A61-110-010		CONN,9P V TID-A
⚠ PT1	8A-NF9-614-010		PT,ANF-9 HR-HI<HS,HT>
⚠ PT1	8A-NF9-616-010		PT,ANF-9 LH-HI<LH>

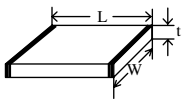
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H)KAMI
⚠ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH,HT>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
DECK C.B<LH>			
CN1	87-099-753-010		CONN,11P H 9604
HL1	8Z-ZM3-214-010		HLDR,IC
SFR1	87-024-581-010		SFR,3.3K DIA6V K0A
SW1	87-A90-673-010		SW,MICRO ESE11SH1C
SW2	87-A91-500-010		SW,MICRO MPU11470MLB0
SW3	87-A91-500-010		SW,MICRO MPU11470MLB0
SW4	87-A91-500-010		SW,MICRO MPU11470MLB0
SW5	87-A90-673-010		SW,MICRO ESE11SH1C
DECK C.B<HS,HT>			
CON105	87-099-753-010		CONN,11P 9604
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW5	87-A90-248-010		SW,MICRO ESE11SH2CXQ
W1	82-ZM3-601-010		RBN-CORD,4P-75
HEAD-1 C.B<HS,HT>			
CON301	85-MA2-615-010		CONN,ASSY 3P-PBDECK C.B

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

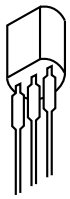
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

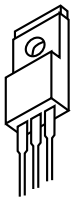
TRANSISTOR ILLUSTRATION



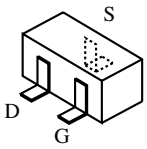
CD1585BC
CSA952K
CSC4115BC
KTA1266GR
KTC3198GR

2SC3331

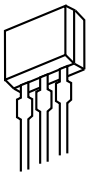
DTC114ES
KTC3199GR



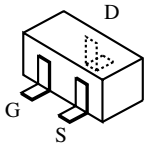
2SB1370



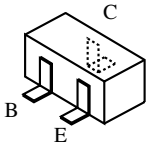
2SK360E



2SJ460
2SK2541



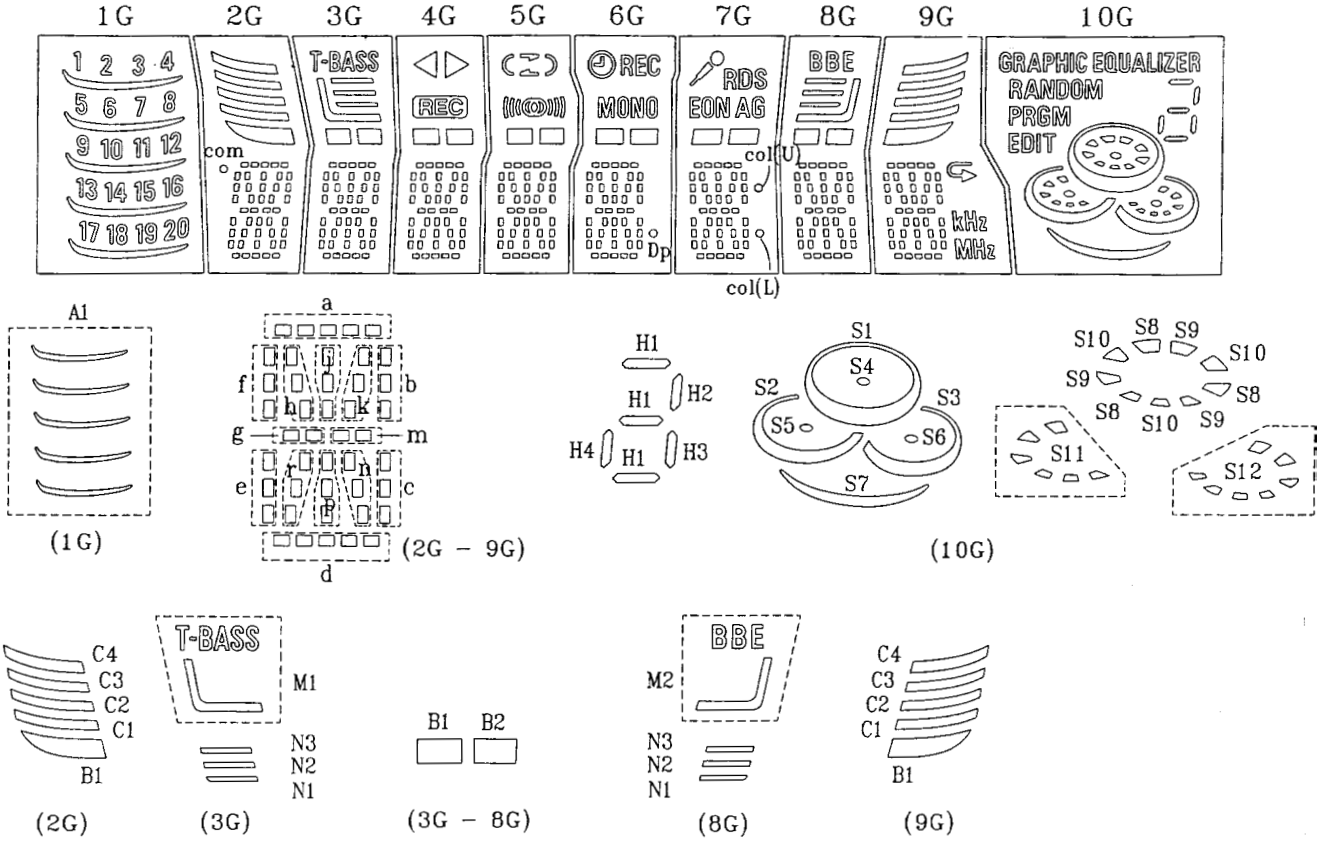
2SK2158



2SA1235F	CSD1306E
2SC2714	KRC102S-RTK
2SC3052F	KRC104S
CMBT5401	RT1P141C
CMBT5551	RT1P144C

FL (HNA-10SS12) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

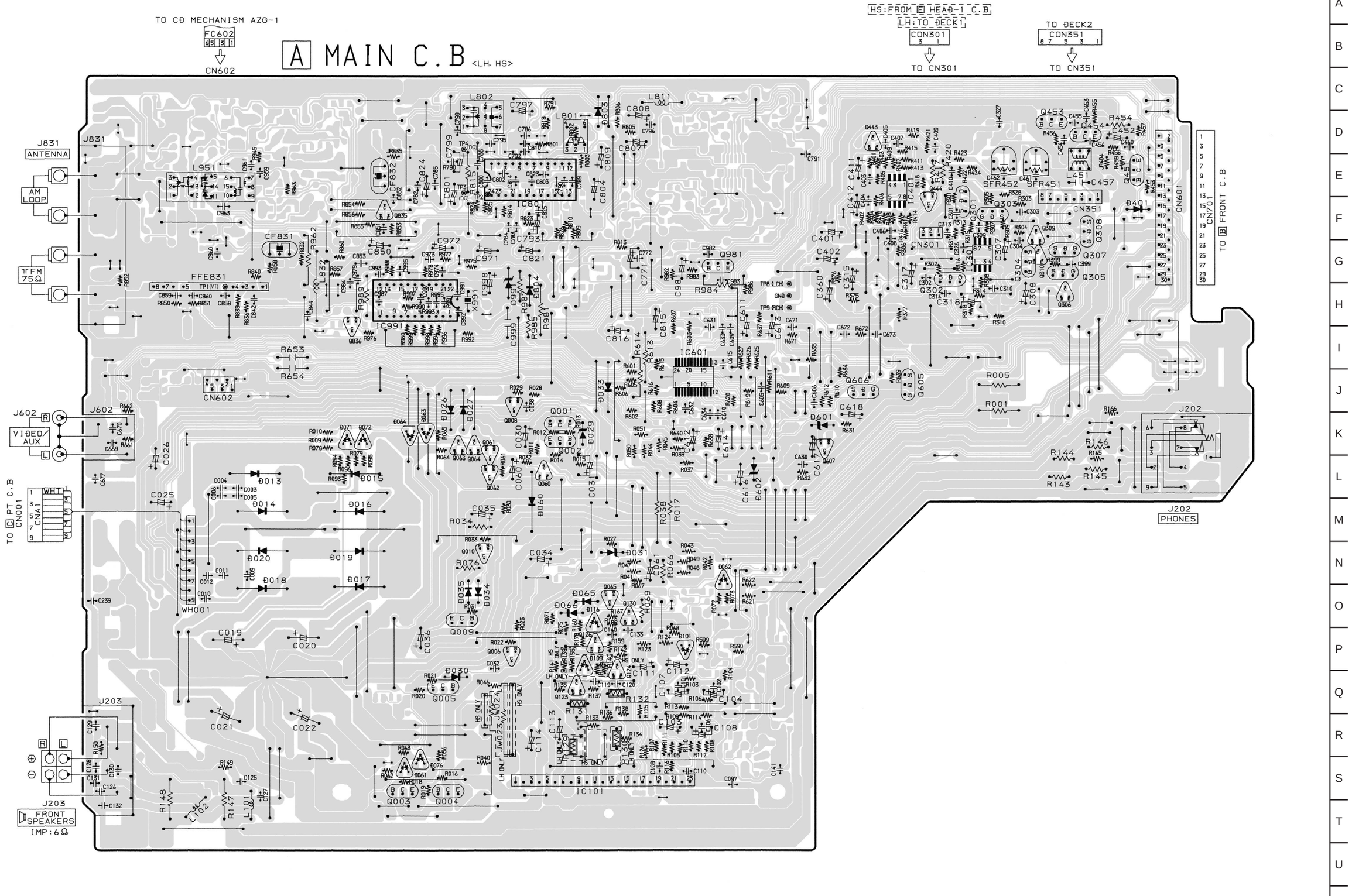


ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G
P1	20	d	d	d	d	d	d	d	d	S1
P2	19	n	n	n	n	n	n	n	n	S2
P3	18	p	p	p	p	p	p	p	p	S3
P4	17	r	r	r	r	r	r	r	r	S4
P5	16	e	e	e	e	e	e	e	e	S5
P6	15	c	c	c	c	c	c	c	c	S6
P7	14	g	g	g	g	g	g	g	g	S7
P8	13	m	m	m	m	m	m	m	m	S8
P9	12	f	f	f	f	f	f	f	f	S9
P10	11	b	b	b	b	b	b	b	b	S10
P11	10	k	k	k	k	k	k	k	k	S11
P12	9	j	j	j	j	j	j	j	j	S12
P13	8	h	h	h	h	h	h	h	h	EDIT
P14	7	a	a	a	a	a	a	a	a	PRGM
P15	6	B1	B1	B1	B1	B1	B1	B1	B1	RANDOM
P16	5	C1	B2	B2	B2	B2	B2	B2	C1	GRAPHIC EQUALIZER
P17	4	C2	M1	REC		Dp	col(U)	M2	C2	H1
P18	3	C3	N1	◁		MONO	col(L)	N1	C3	H2
P19	2	C4	N2	▷		REC	EON	N2	C4	H3
P20	1	com	N3				AG	N3		H4
P21	A1						RDS		kHz	
P22									MHz	

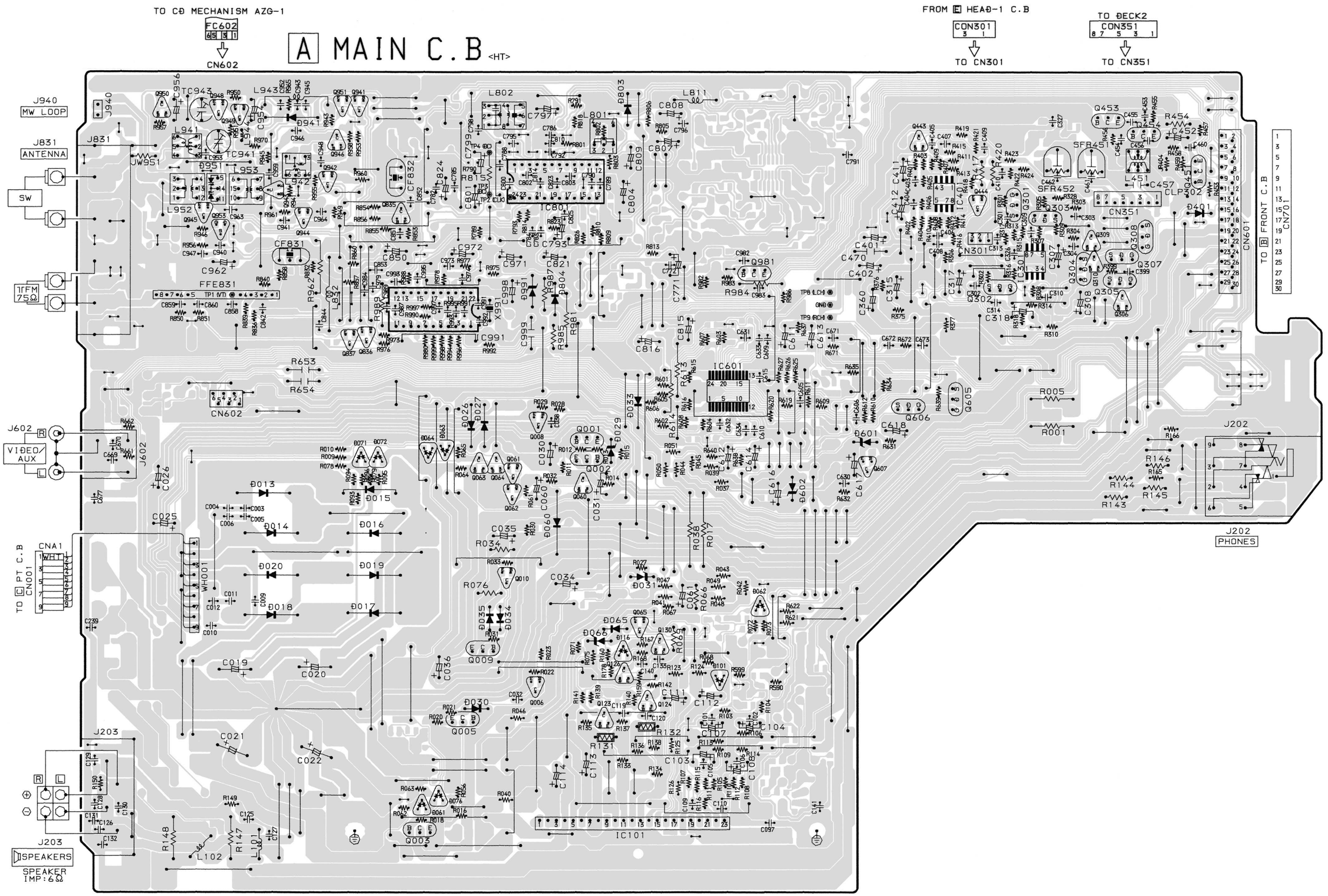
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

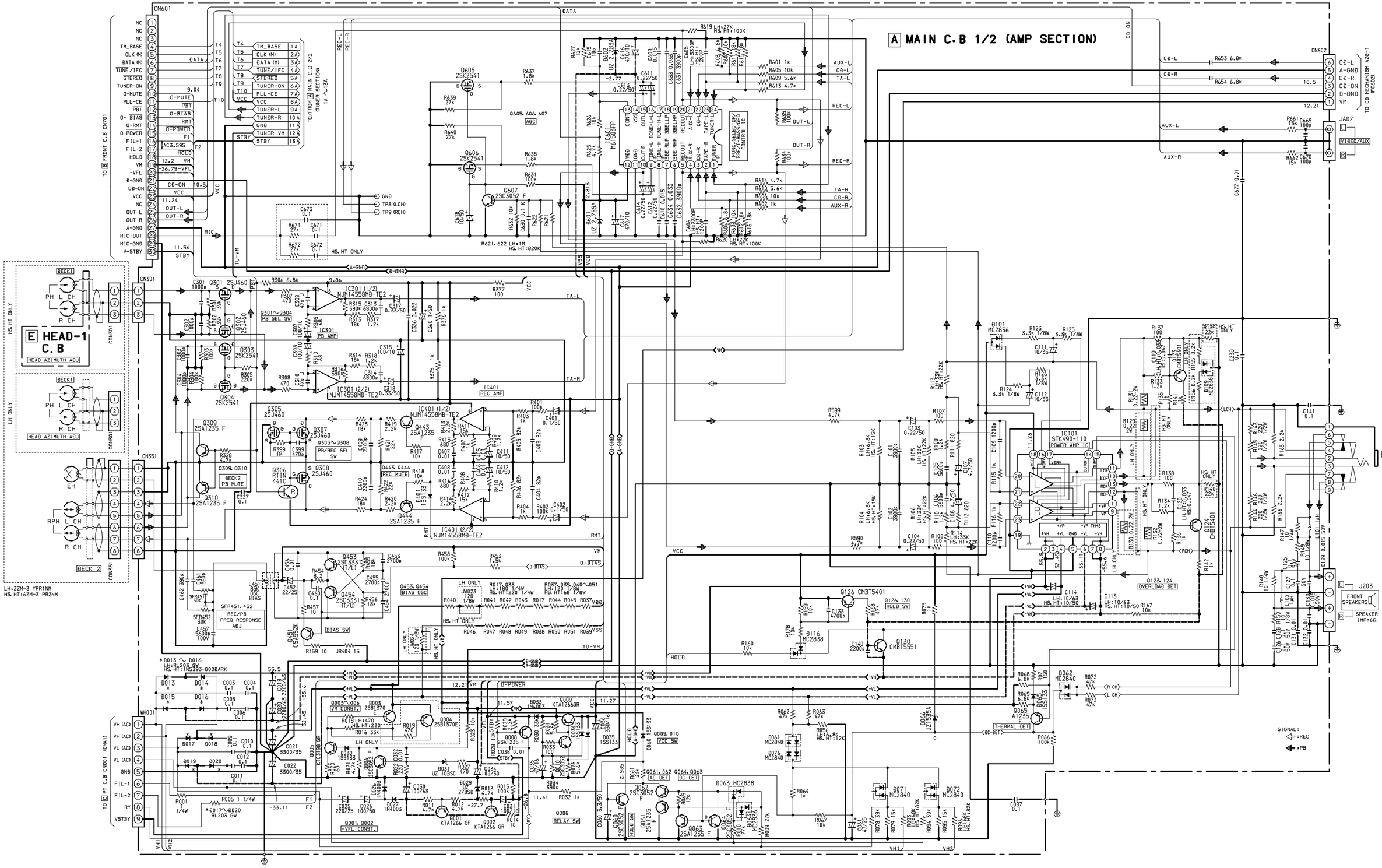


32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

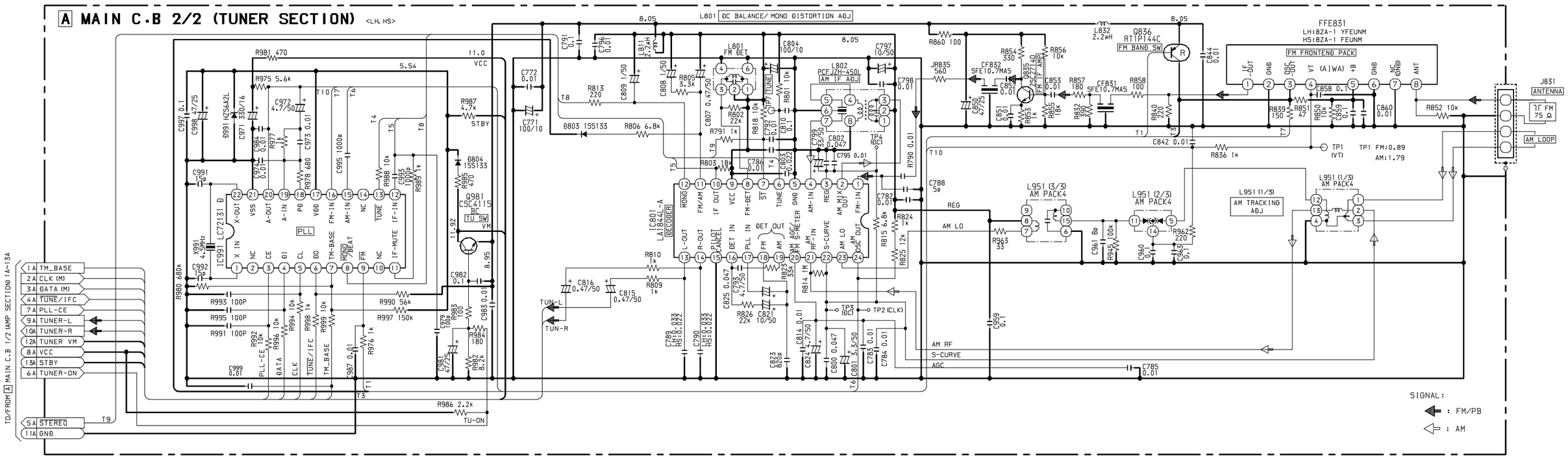
A B C D E F G H I J K L M N O P Q R S T U



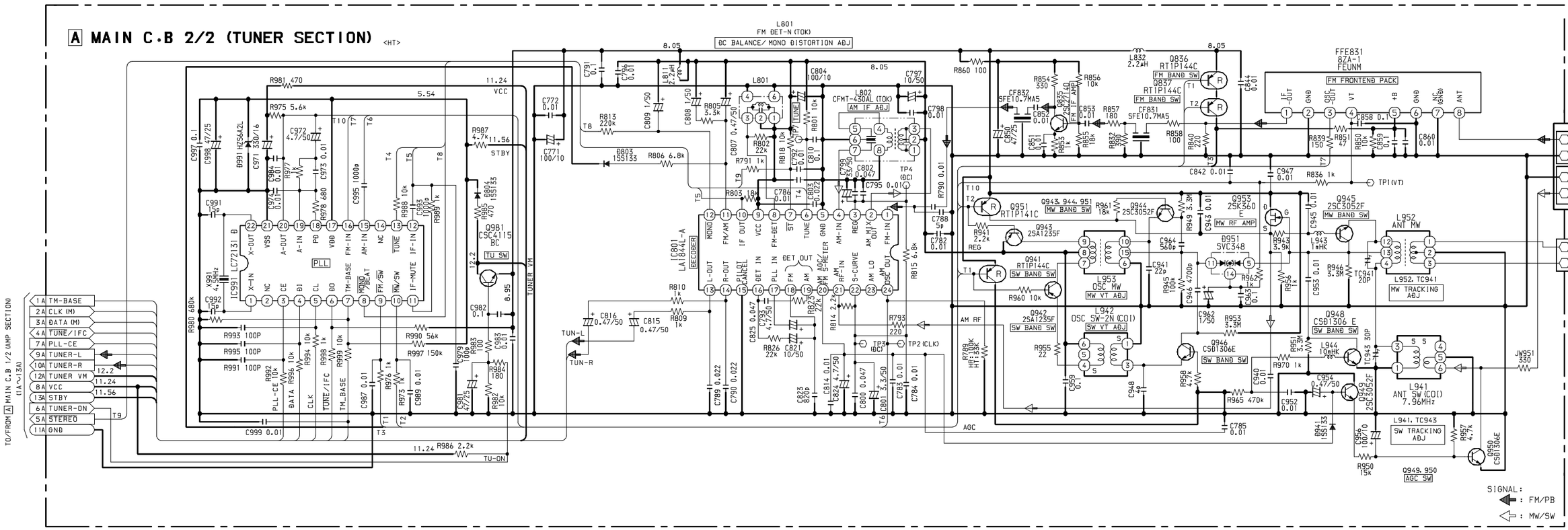
SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2 : AMP / HEAD-1)



SCHEMATIC DIAGRAM – 2 (MAIN 2 / 2 : TUNER)<LH, HS>



SCHEMATIC DIAGRAM – 3 (MAIN 2 / 2 : TUNER)<HT>



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

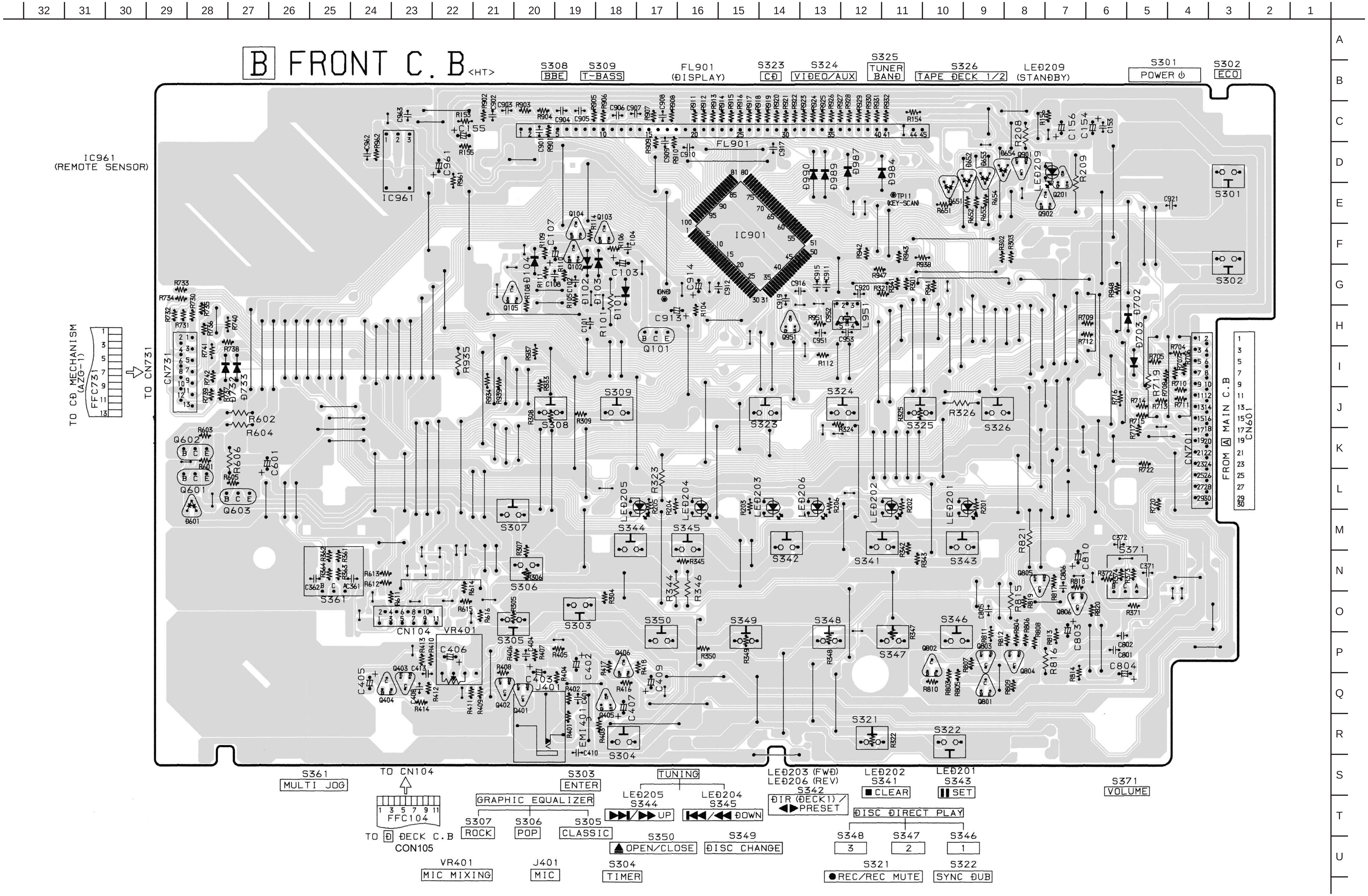
B FRONT C.B <LH, HS>

S308 BBE
S309 T-BASS
FL901 (DISPLAY)
S323 CD
S324 VIDEO/AUX
S325 TUNER BAND
S326 TAPE DECK 1/2
LED209 (STANDBY)
S302 ECO
S301 POWER

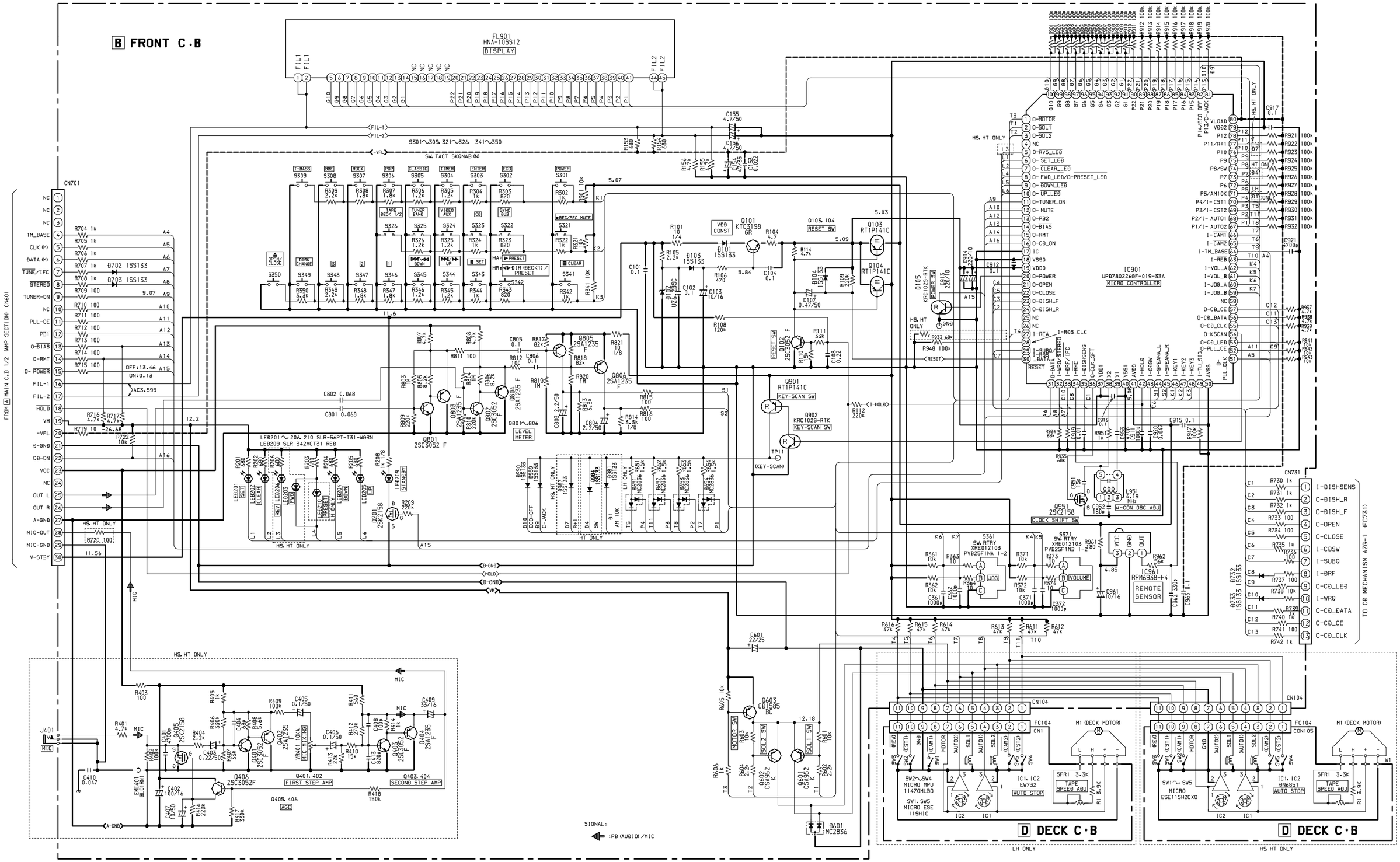
IC961 (REMOTE SENSOR)
TO CD MECHANISM (AZG-1)
FC731
CN731
IC961
IC901
FL901
Q101
Q104 Q103 Q102 Q105
D104 D103 D102 D101
D990 D989 D987 D981
TP11
Q201 Q902
LED208 LED209
S301
S302
S921
D702 D703 D719
CN601 FROM A MAIN C.B
CN701
S371
S372
S341 S342 S343 S344 S345 S346 S347 S348 S349 S350
S303 S304 S305 S306 S307 S308 S309
S321 S322 S323 S324 S325 S326
S361
CN104
VR401
J401
Q601 Q602 Q603
LED201 LED202 LED203 LED204 LED205 LED206 LED210
HS ONLY
LH ONLY

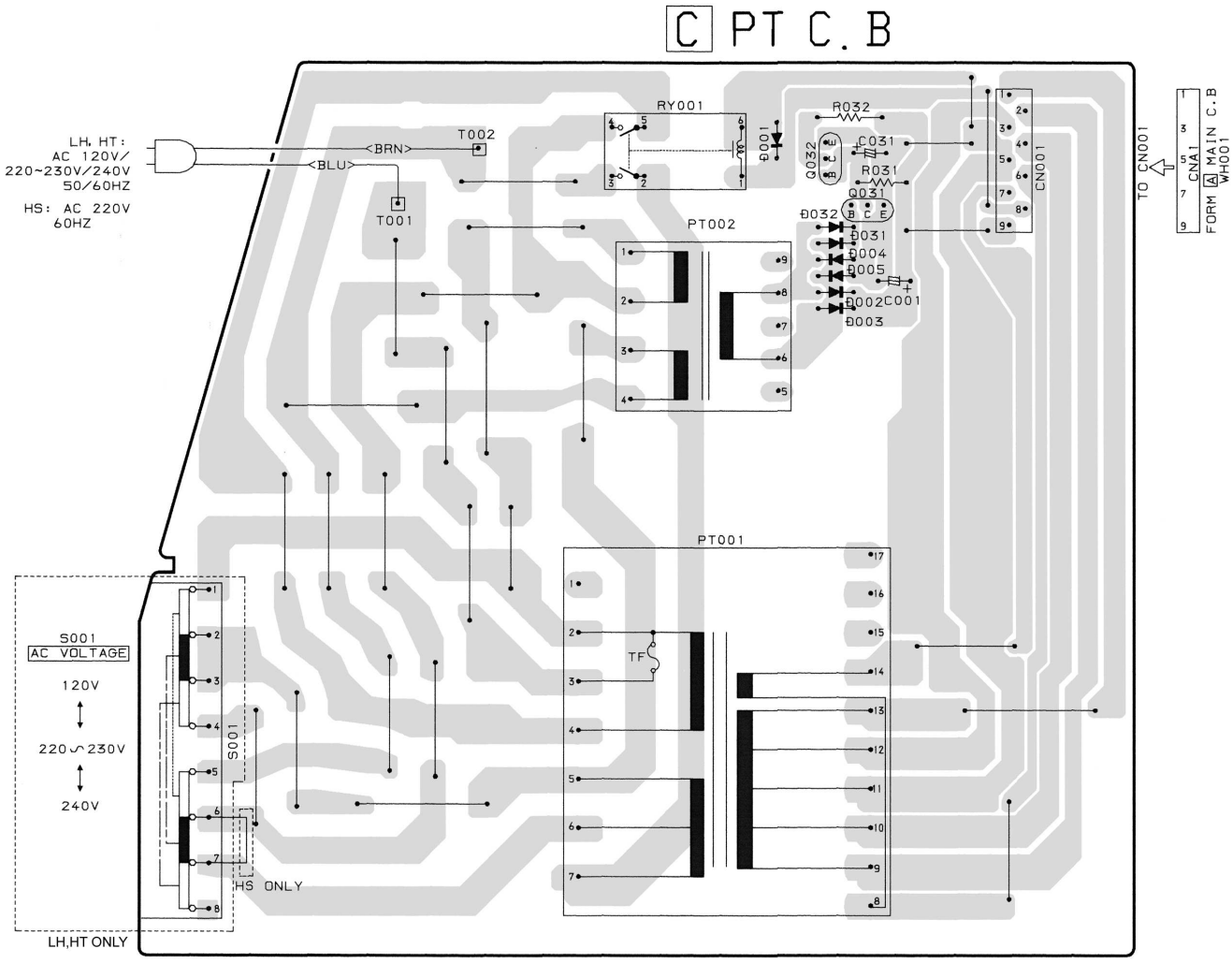
TO CN104
FC104
TO D DECK C.B
CN1<LH>
CON105<HS>

S361 MULTI JOG
GRAPHIC EQUALIZER
S307 ROCK
S306 POP
S305 CLASSIC
S303 ENTER
TUNING
LED205 S344 UP
LED204 S345 DOWN
S350 OPEN/CLOSE
S349 DISC CHANGE
VR401 MIC MIXING
J401 MIC
S304 TIMER
LH ONLY
LED210 (FWD) S342 PRESET
LED203 (FWD), LED206 (REV) S342 DIR (DECK1) /PRESET
LED202 S341 CLEAR
LED201 S343 SET
DISC DIRECT PLAY
S348 3
S347 2
S346 1
S321 REC/REC MUTE
S322 SYNC DUB
S371 VOLUME

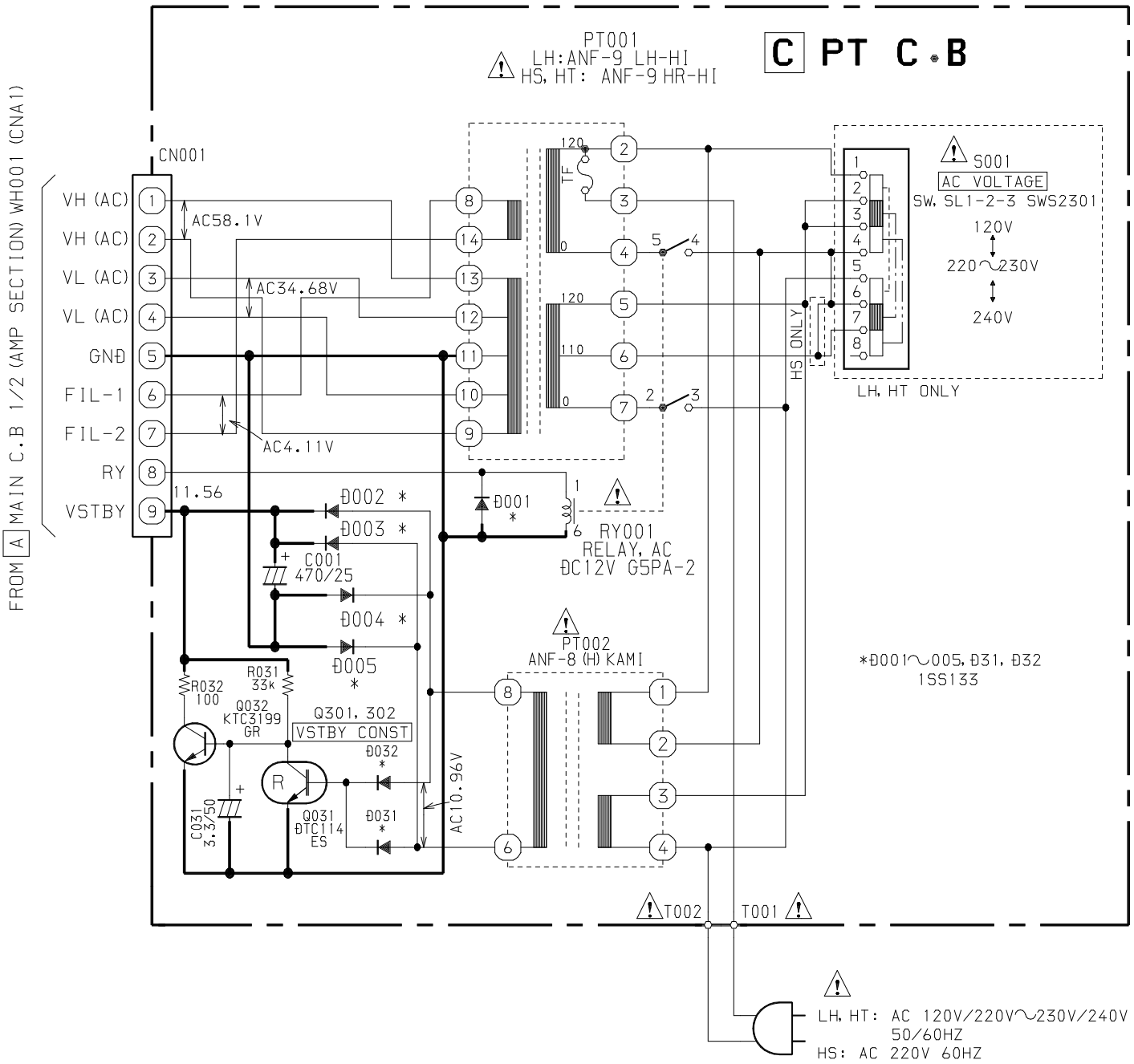

B FRONT C.B <HT>
S308 BBE
S309 T-BASS
FL901 (DISPLAY)
S323 CD
S324 VIDEO/AUX
S325 TUNER BAND
S326 TAPE DECK 1/2
LED209 (STANDBY)
S301 POWER
S302 ECO
IC961 (REMOTE SENSOR)
TO CD MECHANISM (AZG-1)
FFC731
TO CN731
FROM A MAIN C.B CN601
IC901
CN701
CN731
CN104
VR401
J401
S361 MULTI JOG
TO CN104
FFC104
TO D DECK C.B
CON105
S303 ENTER
GRAPHIC EQUALIZER
S307 ROCK
S306 POP
S305 CLASSIC
TUNING
LED205 S344 UP
LED204 S345 DOWN
S350 OPEN/CLOSE
S349 DISC CHANGE
LED203 (FWD)
LED206 (REV)
S342 DIR (DECK1) / PRESET
LED202 S341 CLEAR
LED201 S343 SET
DISC DIRECT PLAY
S348 3
S347 2
S346 1
S371 VOLUME
VR401 MIC MIXING
J401 MIC
S304 TIMER
S321 REC/REC MUTE
S322 SYNC DUB

SCHEMATIC DIAGRAM – 4 (FRONT)

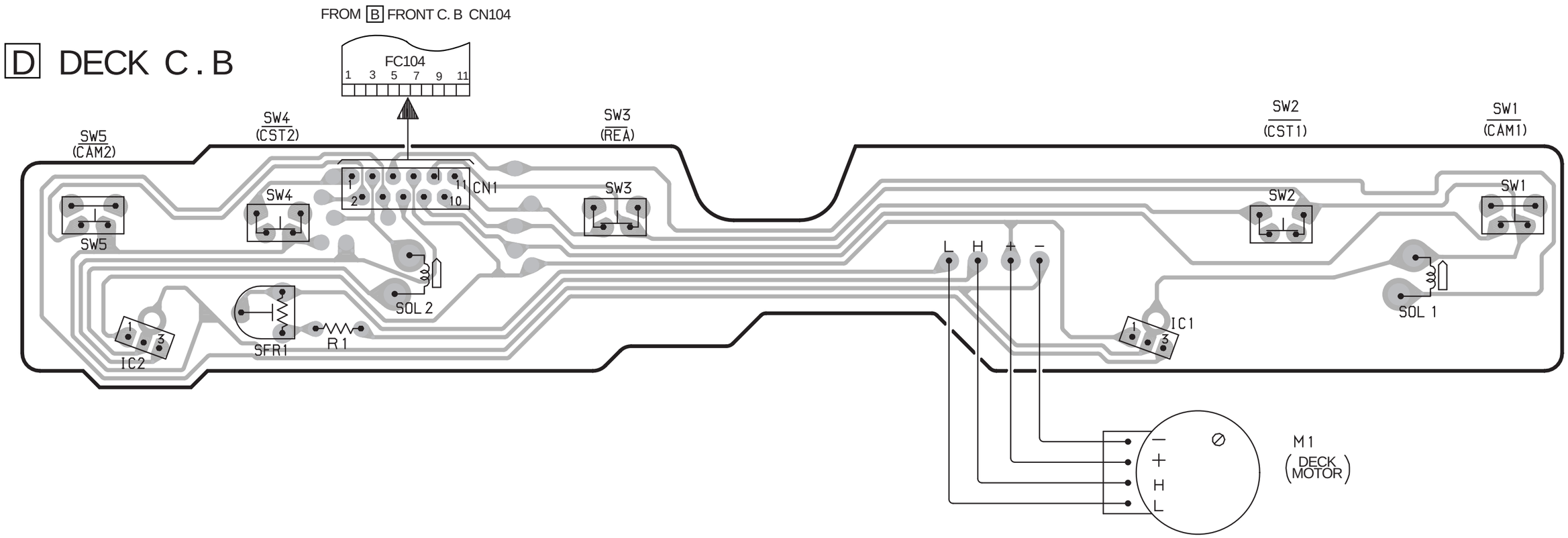


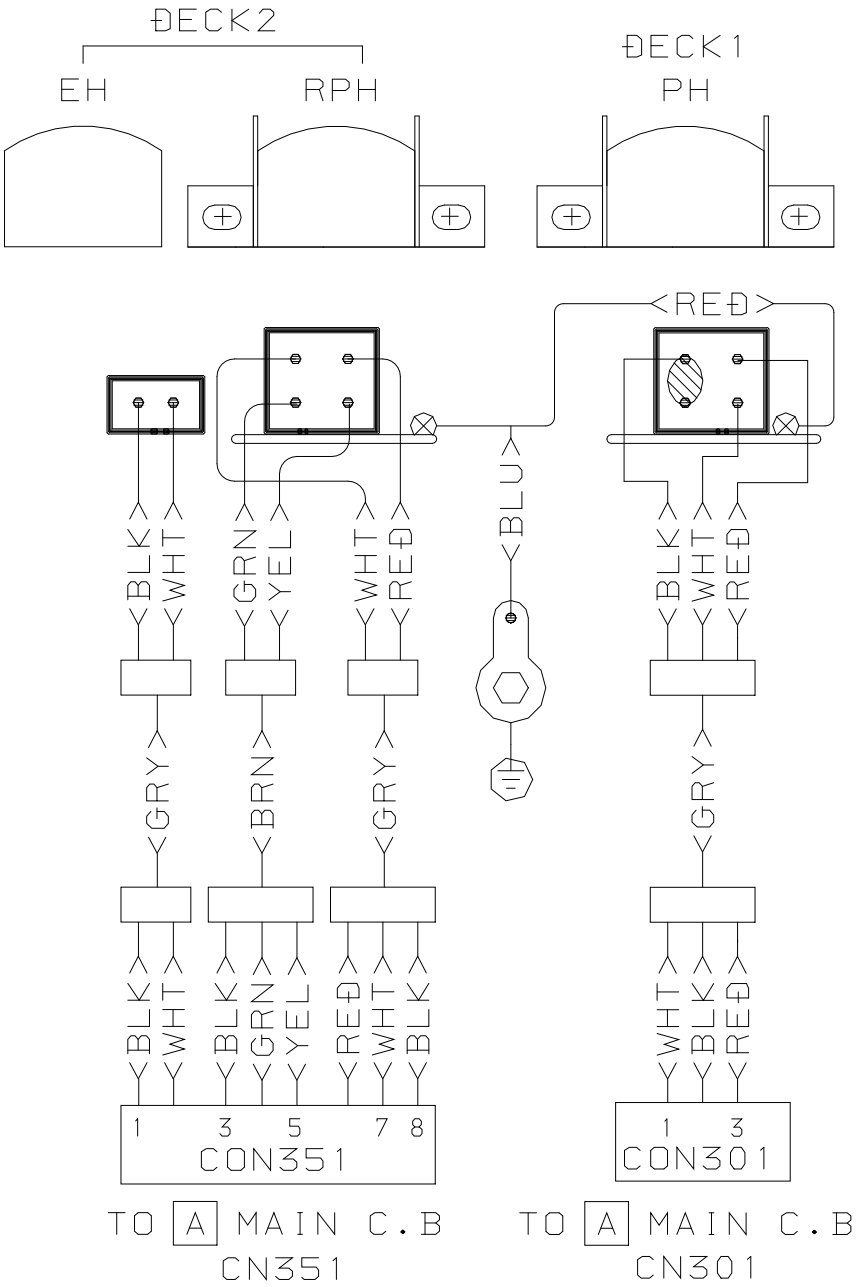

C PT C.B
LH, HT:
AC 120V/
220~230V/240V
50/60HZ
HS: AC 220V
60HZ
<BRN>
<BLU>
T002
T001
RY001
D001
R032
Q032
C031
R031
Q031
D032
D031
D004
D005
D002
C001
D003
PT002
PT001
TF
CN001
TO CN001
CNA1
FORM MAIN C.B
WH001
S001
AC VOLTAGE
120V
220~230V
240V
HS ONLY
LH,HT ONLY

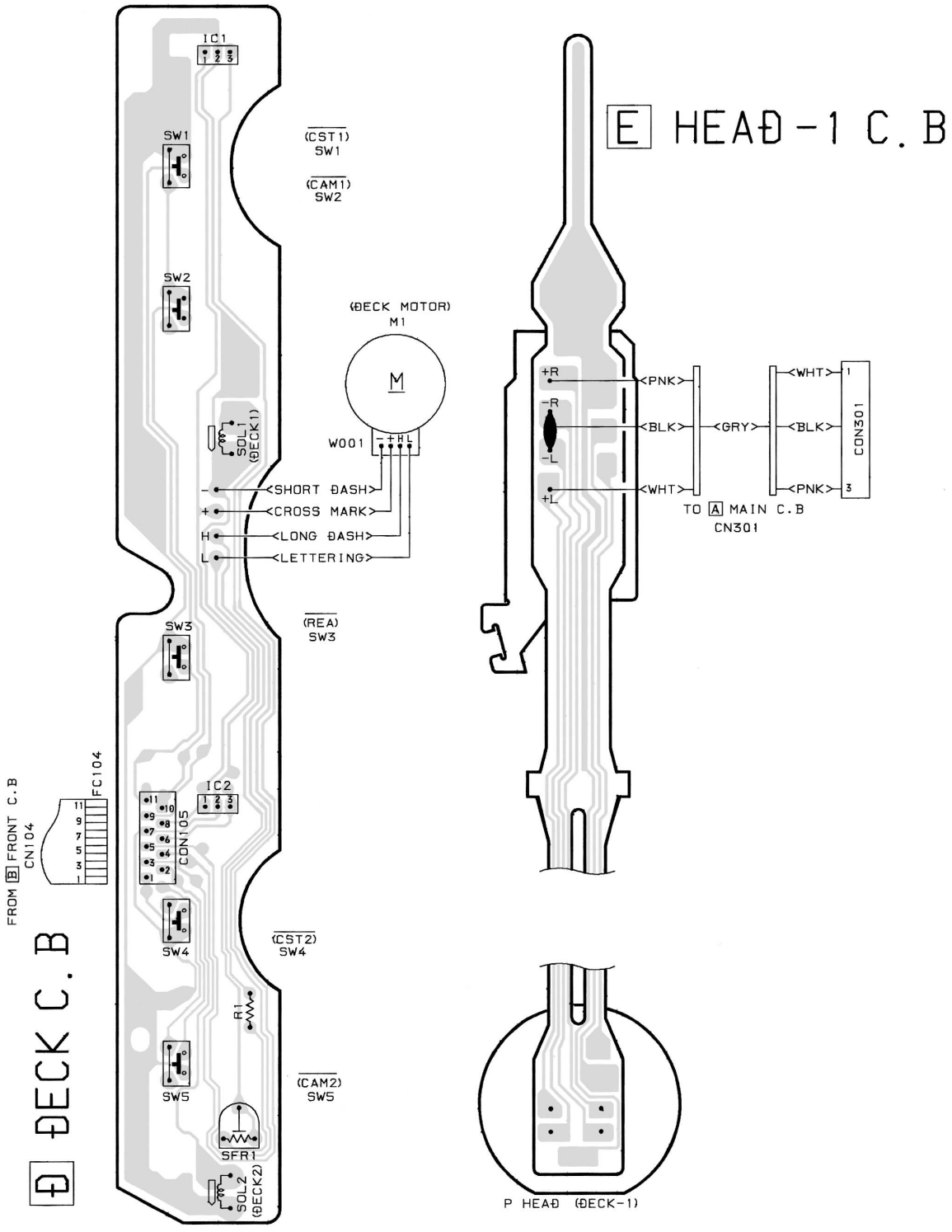
SCHEMATIC DIAGRAM – 5 (PT)

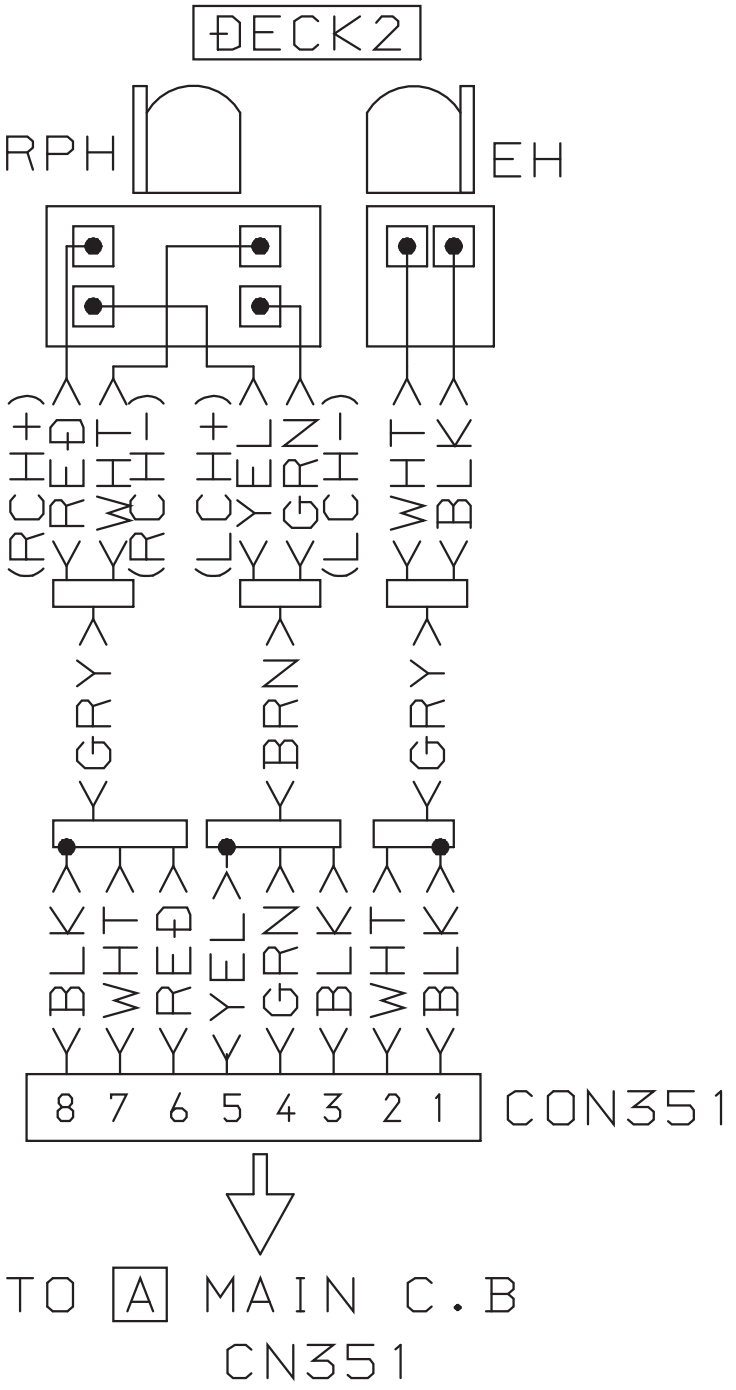


D DECK C.B


FROM B FRONT C. B CN104
FC104
1 3 5 7 9 11
SW5 (CAM2)
SW4 (CST2)
SW3 (REA)
SW2 (CST1)
SW1 (CAM1)
CN1
1 2 11 10
SW5
SW4
SW3
SW2
SW1
L H + –
SOL 2
SOL 1
IC2
SFR1
R1
IC1
M1 (DECK MOTOR)
– + H L

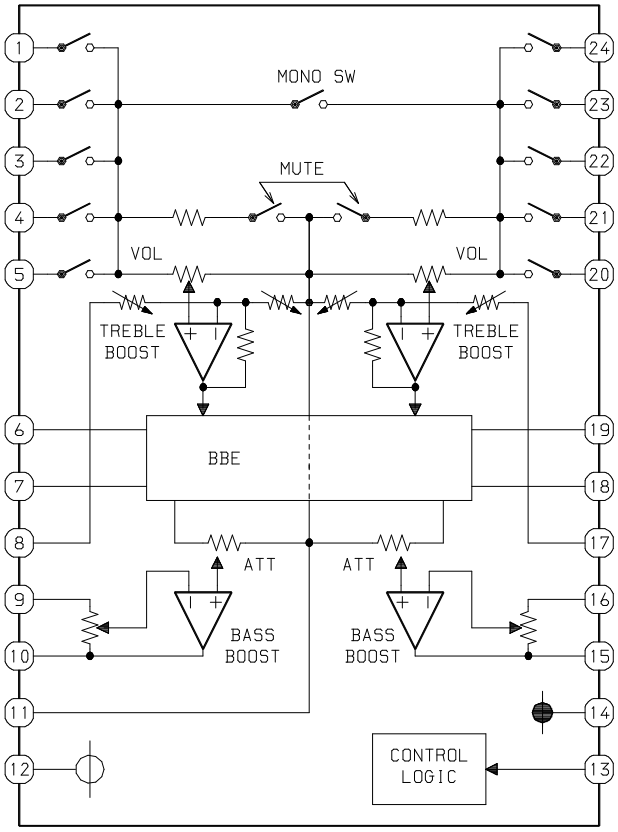

DECK2
EH
RPH
DECK1
PH
<RED>
BLK
WHT
GRN
YEL
WHT
RED
BLU
BLK
WHT
RED
GRY
BRN
GRY
GRY
BLK
WHT
BLK
GRN
YEL
RED
WHT
BLK
WHT
BLK
RED
1 3 5 7 8
CON351
1 3
CON301
TO A MAIN C.B
CN351
TO A MAIN C.B
CN301


D DECK C.B
E HEAD-1 C.B
IC1
SW1
SW2
SW3
SW4
SW5
(CST1) SW1
(CAM1) SW2
(REA) SW3
(CST2) SW4
(CAM2) SW5
(DECK MOTOR) M1
M
W001
SOL1 (DECK1)
SOL2 (DECK2)
SFR1
R1
IC2
CON105
FC104
FROM B FRONT C.B CN104
<SHORT DASH>
<CROSS MARK>
<LONG DASH>
<LETTERING>
+R
-R
-L
+L
<PNK>
<BLK>
<GRY>
<WHT>
CON301
TO A MAIN C.B CN301
P HEAD (DECK-1)

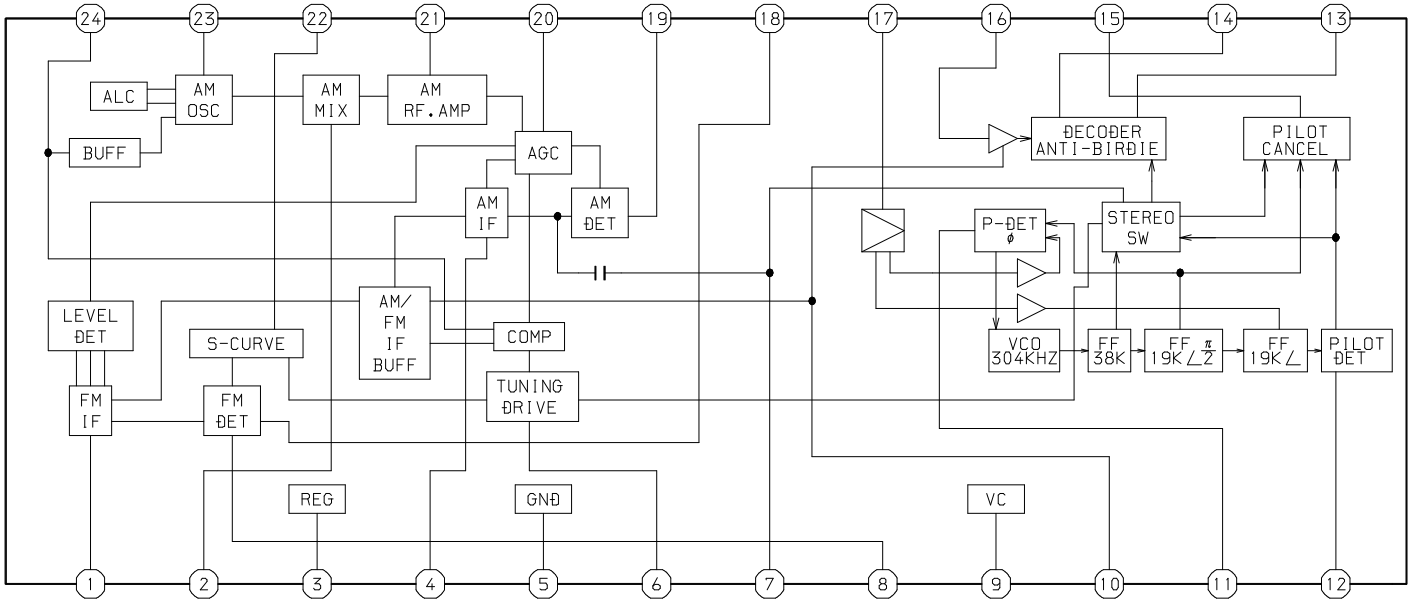

DECK2
RPH
EH
(RCH+) RED WHT (RCH-)
(LCH+) YEL GRN (LCH-)
WHT BLK
GRY
BRN
GRY
BLK WHT RED YEL GRN BLK WHT BLK
8 7 6 5 4 3 2 1
CON351
TO A MAIN C.B
CN351

IC BLOCK DIAGRAM

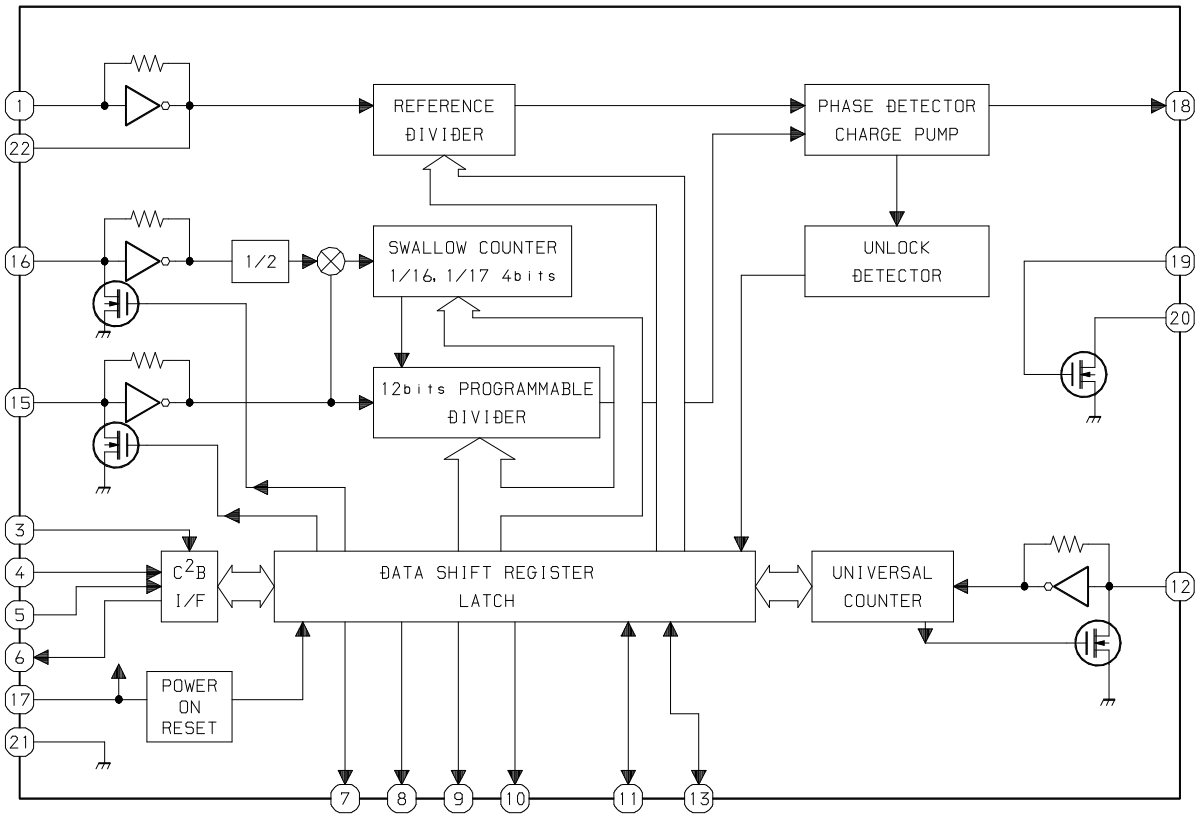
IC, M61503FP



IC, LA1844L-A



IC, LC72131Ð


REFERENCE
ÐIVIÐER
PHASE ÐETECTOR
CHARGE PUMP
1/2
SWALLOW COUNTER
1/16, 1/17 4bits
UNLOCK
ÐETECTOR
12bits PROGRAMMABLE
ÐIVIÐER
C2B
I/F
ÐATA SHIFT REGISTER
LATCH
UNIVERSAL
COUNTER
POWER
ON
RESET
1
22
16
15
3
4
5
6
17
21
18
19
20
12
7
8
9
10
11
13

IC DESCRIPTION

IC, µPD780226GF-019-3BA

Pin No.	Pin Name	I/O	Description
1	O-$\overline{\text{MOTOR}}$	O	DECK MOTOR ON/OFF output.
2	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
3	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
4	NC	–	Not connected.
5	O-$\overline{\text{RVS\_LED}}$	O	PRESET (REV) LED ON/OFF output <HS,HT only>.
6	O-$\overline{\text{SET\_LED}}$	O	SET LED ON/OFF output.
7	O-$\overline{\text{CLEAR\_LED}}$	O	CLEAR LED ON/OFF output.
8	O-$\overline{\text{FWD\_LED}}$ / O-$\overline{\text{PRESET\_LED}}$	O	PRESET (FWD) LED ON/OFF output <HS,HT only> / PRESET LED ON/OFF output <LH only>.
9	O-$\overline{\text{DOWN\_LED}}$	O	DOWN LED ON/OFF output.
10	O-$\overline{\text{UP\_LED}}$	O	UP LED ON/OFF output.
11	O-TUNER_ON	O	TUNER ON output.
12	O-MUTE	O	MUTE output.
13	O-PB2	O	DECK2/$\overline{\text{DECK1}}$ play output.
14	O-$\overline{\text{BIAS}}$	O	BIAS ON output.
15	O-RMT	O	REC mute output.
16	O-CD_ON	O	CD ON output.
17	IC	–	Internal connection (connected to GND).
18	VSSO	–	GND.
19	VDDO	–	Power supply.
20	O-POWER	O	System power supply $\overline{\text{ON}}$/OFF output.
21	O-OPEN	O	CD tray open data output.
22	O-CLOSE	O	CD tray close data output.
23	O-DISH_F	O	CD turntable forward rotation output.
24	O-DISH_R	O	CD turntable reverse rotation output.
25	NC	–	Not connected.
26	NC	–	Not connected.
27	I-$\overline{\text{REA}}$	I	Volume jog AD input.
28	I-RDS_CLK	I	Connected to GND through Resistor.
29	I-SUBQ/I-RDS_DATA	I	CD SUBQ data input / Tuner RDS data input (not used).
30	$\overline{\text{RESET}}$	–	System reset.
31	O-DATA	O	Data output for MAIN.
32	I-WRQ/$\overline{\text{STEREO}}$	I	CD WRQ input / Tuner stereo input.
33	I-DRF/IFC	I	CD DRF input / Tune IF count serial data input.
34	I-$\overline{\text{RMC}}$	I	System remote control input.
35	I-DISHSENS	I	CD turntable photo sensor input.
36	O-$\overline{\text{CLK\_SFT}}$	O	Micon clock shift output.
37	VDD1	–	Power supply.
38	X2	–	4.19MHz oscillator circuit.
39	X1	–	4.19MHz oscillator circuit.
40	VSS1	–	GND.
41	AVDD	–	Power supply.
42	I-HOLD	I	Power failure detected input.

Pin No.	Pin Name	I/O	Description
43	I-CDSW	I	CD mecha switch input.
44	I-SPEANA_L	I	A/D L-input for spectrum analyser level display.
45	I-SPEANA_R	I	A/D R-input for spectrum analyser level display.
46	I-KEY1	I	Key1 input.
47	I-KEY2	I	Key2 input.
48	I-KEY3	I	Key3 input.
49	I-TU_SIG	I	Tuner signal input.
50	AVSS	–	GND.
51	O-PLL_CLK	O	PLL clock enable output.
52	O-PLL_CE	O	Chip enable output for tuner PLL.
53	O-CD_LED	O	CD flash window LED ON/OFF output.
54	O-KSCAN	O	Key scan output.
55	O-CD_CLK	O	CD clock output.
56	O-CD_DATA	O	CD data output.
57	O-CD_CE	O	CD enable output.
58	NC	–	Not connected.
59	I-JOG_B	I	Dial jog rotary encoder input B.
60	I-JOG_A	I	Dial jog rotary encoder input A.
61	I-VOL_B	I	Volume rotary encoder input B.
62	I-VOL_A	I	Volume rotary encoder input A.
63	I-$\overline{\text{REB}}$	I	DECK2 side-B recordable switch data input. "L" = REC.
64	I-TM_BASE	I	Base input for clock.
65	I-$\overline{\text{CAM2}}$	I	DECK2 CAM switch data input.
66	I-$\overline{\text{CAM1}}$	I	DECK1 CAM STOP switch data input.
67	P1/I-AUTO2	O/I	FL segment P1 output / DECK2 AUTO STOP switch data input.
68	P2/I-AUTO1	O/I	FL segment P2 output / DECK1 AUTO STOP switch data input.
69	P3/I-CST2	O/I	FL segment P3 output / DECK2 cassette detect switch data input.
70	P4/I-CST1	O/I	FL segment P4 output / DECK1 cassette detect switch data input.
71	P5/AM10K	O/I	FL segment P5 output / AM10K data input <LH only>.
72, 73	P6, P7	O	FL segment P6, P7 output.
74	P8/SW	O/I	FL segment P8 output / SW mode data input <HT only>.
75, 76	P9, P10	O	FL segment P9, P10 output.
77	P11/R+1	O/I	FL segment P10 output / REV data input <HS,HT only>.
78	P12	O	FL segment P12 output.
79	VDD2	–	Power supply.
80	VLOAD	–	Power supply for FL display.
81	P13/C-JACK	O/I	FL segment P13 output / C-JACK data input.
82	P14/ECO-OFF	O/I	FL segment P14 output / ECO-OFF data input.
83 ~ 90	P15 ~ P22	O	FL segment P15 ~ P22 output.
91 ~100	G1 ~ G10	O	FL grid G1 ~ G10 output.

ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

1. Clock frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : LH,HS: Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.
   HT: Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. AM VT Check <LH,HS>
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz, 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).

3. MW VT Adjustment <HT>
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L953
   Method : Set to MW 1602kHz and adjust L953 so that the test point becomes 8.0V ± 0.05V. Then check that the test point is more than 0.3V (531kHz).

4. SW VT Adjustment <HT>
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 8.0V ± 0.05V. Then check that the test point is more than 0.3V (5.9MHz).

5. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

6. AM IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L802 ..... 450kHz

7. AM Tracking Adjustment <LH,HS>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L951(1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L951(1/3) to MAX.

8. MW Tracking Adjustment <HT>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L952 .....603kHz
   TC941 .....1404kHz
   Method : Set up TC941 to center before adjustment. The output level at 603kHz is adjusted to maximum by L952. Then the output level at 1404kHz is adjusted to maximum by TC941.

9. SW Tracking Adjustment <HT>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L941 .....5.9MHz
   TC943 .....17.9MHz
   Method : Set up TC943 to center before adjustment. The output level at 5.9MHz is adjusted to maximum by L941. Then the output level at 17.9MHz is adjusted to maximum by TC943.

10. FM Tracking Check
    Settings : • Test point : TP8(Lch), TP9(Rch)
    Method : Set to FM 98.0MHz and check that the test point is less than 9dBμV.

11. DC Balance / Mono Distortion Adjustment
    Settings : • Test point : TP3, TP4 (DC Balance)
    TP8(Lch), TP9(Rch) (Distortion)
    • Adjustment location : L801
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 300mV, with minimum distortion.

< DECK SECTION >

12. Tape Speed Adjustment (DECK 2)
    Settings : • Test tape : TTA–100
    • Test point : TP8(Lch), TP9(Rch)
    • Adjustment location : SFR1
    Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz (FWD) and FWD SPEED ± 45Hz (REV).

13. Head Azimuth Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point : TP8(Lch), TP9(Rch)
    • Adjustment location : Azimuth adjustment screw
    Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

14. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point :TP8(Lch), TP9(Rch)
    Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5.0dB.

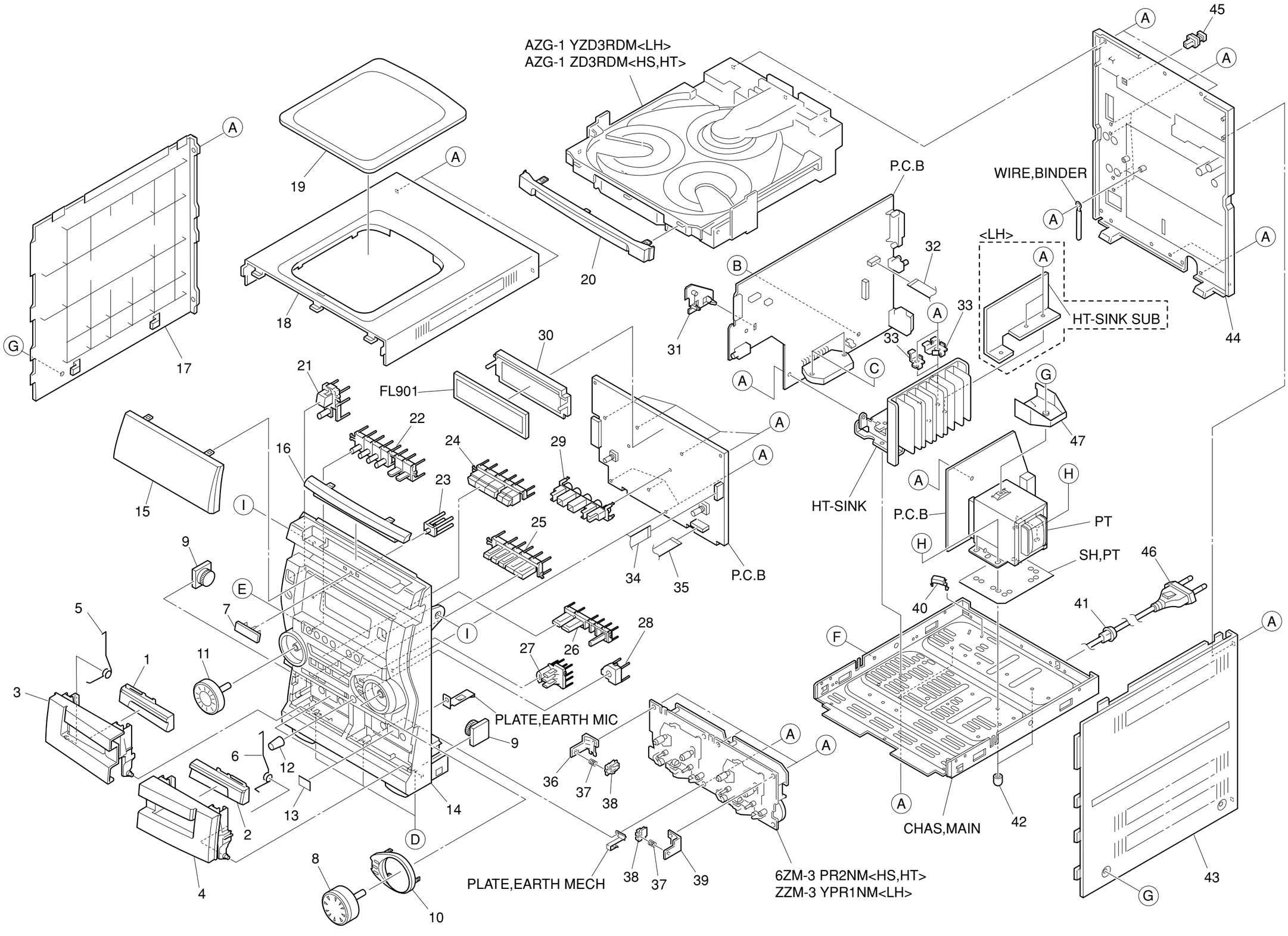
15. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8(Lch), TP9(Rch)
    Method : Play back the test tape and check that the output level of the test point is 110mV ± 3.0dB.

16. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz / 8kHz (LINE IN)
    • Adjustment location : SFR451 (Lch)
    SFR452 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU (-26dBV). Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes 1.5dB ± 0.5dB with respect to that of the 1kHz signal.

17. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (-6dBV). Record and play back the 1kHz signals and check that the output is -1dB ± 3.5dB.

< FRONT SECTION >

18. µ-con OSC Adjustment
    Settings : • Test point : TP11(KEY-SCAN), GND
    • Adjustment location : L951
    Method : Insert AC plug while pressing TUNER function key. Adjust L951 so that the frequency across the test point becomes 184.98Hz ± 0.18Hz.


AZG-1 YZD3RDM<LH>
AZG-1 ZD3RDM<HS,HT>
P.C.B
WIRE,BINDER
<LH>
HT-SINK SUB
FL901
HT-SINK
P.C.B
PT
SH,PT
CHAS,MAIN
PLATE,EARTH MIC
PLATE,EARTH MECH
6ZM-3 PR2NM<HS,HT>
ZZM-3 YPR1NM<LH>
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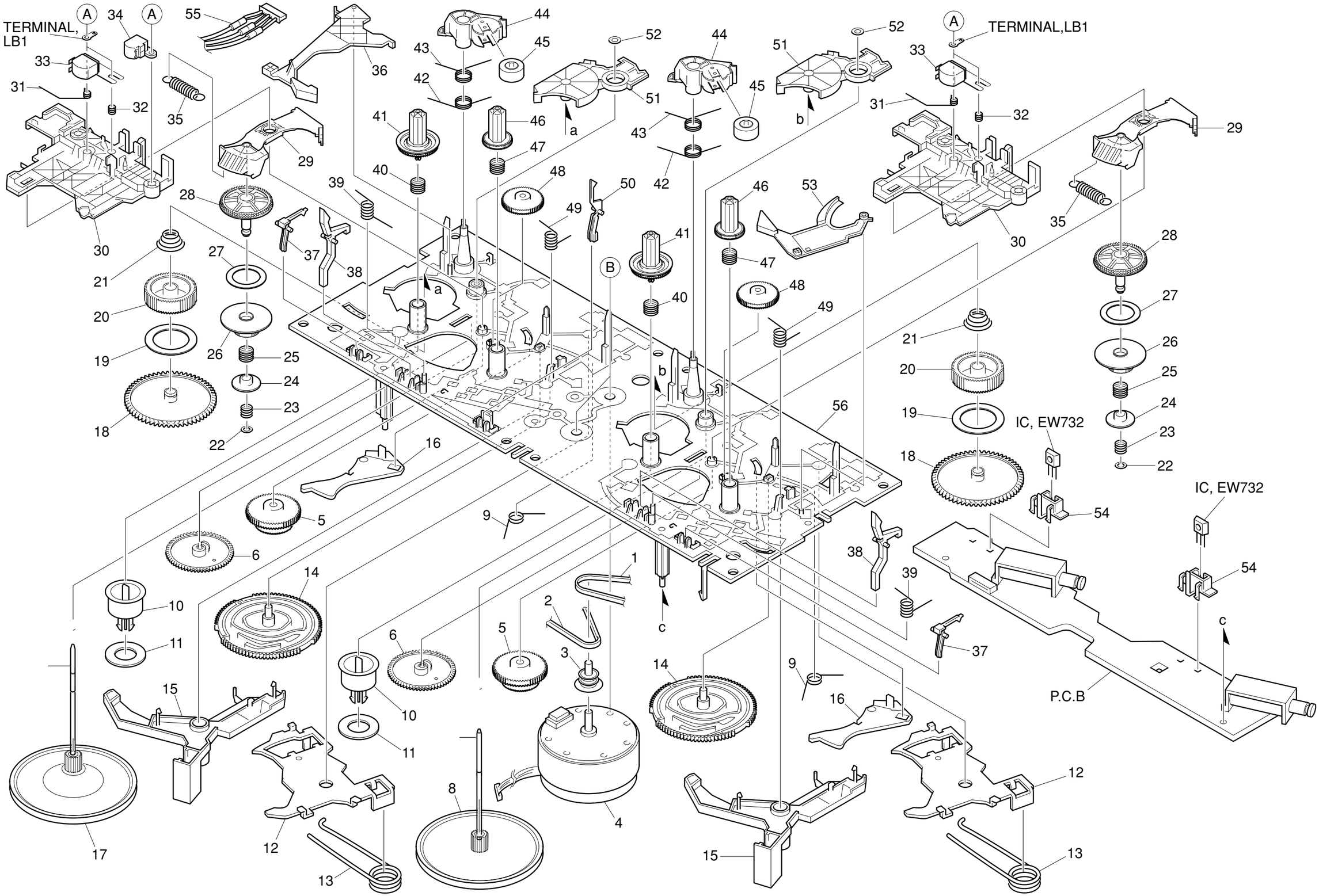
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF9-006-010		WINDOW,CASS 1
2	8A-NF9-007-010		WINDOW,CASS 2
3	8A-NF9-003-010		BOX,CASS 1<LH>
3	8A-NF9-047-010		BOX,CASS 1 H<HS,HT>
4	8A-NF9-004-010		BOX,CASS 2
5	8A-NF8-207-010		SPR-T,EJECT 1
6	8A-NF8-208-010		SPR-T,EJECT 2
7	87-CE3-023-010		BADGE,AIWA 30N SILV
8	8A-NF9-018-010		KNOB,RTRY JOG
9	8A-NF8-209-010		OIL-DMPR,120
10	8A-NF9-017-010		PANEL,JOG
11	8A-NF9-016-010		KNOB,RTRY VOL
12	8A-NF9-015-010		KNOB,RTRY MIC<HS,HT>
13	81-532-080-010		LABEL, CASS. COMPT
14	8A-NFX-006-010		CABI,FR H<HS,HT>
14	8A-NF9-001-010		CABI,FR U<LH>
15	8A-NFX-002-010		WINDOW,DISP LH<HS,HT>
15	8A-NFX-016-010		WINDOW,DISP LH KIT<LH>
16	8A-NF9-039-010		WINDOW,CD
17	8A-NF8-007-010		PANEL,LEFT V-2
18	8A-NF8-005-010		PANEL,TOP
19	8A-NF8-006-010		WINDOW,TOP
20	8A-NF9-014-010		PANEL,TRAY
21	8A-NF9-008-010		KEY,POWER
22	8A-NF9-009-010		KEY,FUN
23	8A-NF9-022-010		REFLECTOR,ECO
24	8A-NF9-010-110		KEY,ASSY OPE 1 WAY<LH>
24	8A-NF9-023-010		KEY,ASSY OPE REV<HS,HT>
25	8A-NF9-020-010		KEY,CD<HS,LH>
25	8A-NF9-020-110		KEY,CD<HT>
26	8A-NF9-019-010		KEY,SYNC
27	8A-NF9-026-110		KEY,ENTER
28	8A-NF9-021-010		PLATE,MIC<HS,HT>
29	8A-NF9-201-010		GUIDE,OPE 1 WAY<LH>
29	8A-NF9-203-010		GUIDE,OPE REV<HS,HT>
30	82-NF7-210-110		GUIDE,FL (*)
31	8A-NF8-206-010		HLDR,PWB M
32	88-906-251-110		FF-CABLE,6P 1.25
33	86-NF6-211-010		HLDR,IC T1.6<LH>
33	8A-NF8-226-010		HLDR,IC T2<HS,HT>
34	88-913-301-110		FF-CABLE,13P-1.25
35	88-911-101-110		FF-CABLE,11P 1.25
36	87-NF4-216-010		HLDR,LOCK 1
37	86-NF9-224-010		SPR-C,LOCK
38	82-NF5-229-010		PLATE,LOCK
39	87-NF4-217-110		HLDR,LOCK 2
40	87-NF4-221-010		HLDR,CABLE
41	87-085-185-010		BUSHING, AC CORD (E)
42	8Z-NB8-240-010		COVER, PL
43	8A-NF8-008-010		PANEL,RIGHT V-2
44	8A-NFX-008-110		CABI,REAR HS W/O SPEC<HS>
44	8A-NFX-005-110		CABI,REAR LH W/O SPEC<LH>
44	8A-NFX-018-010		CABI,REAR HR W/O SPEC<HT>
45	84-ZG1-245-210		CAP,OPTICAL
⚠ 46	87-A80-157-010		AC CORD ASSY,E BLK CC<LH,HT>
⚠ 46	87-A80-155-010		AC CORD ASSY,HS TS<HS>
47	8A-NF9-211-010		HLDR,PWB PT HI
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
C	87-067-581-010		TAPPING SCREW, BVT2+3-15
D	87-067-689-010		TAPPING SCREW, BVTT+3-8
E	87-723-096-410		QT2+3-10W/O SLOT BL
F	87-721-096-410		QT2+3-10 GLD
G	87-067-641-010		UTT2+3-8(W/O SLOT)BL
H	87-078-191-010		S-SCREW,IT+4-10
I	87-721-097-410		QT2+3-12 GLD

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink

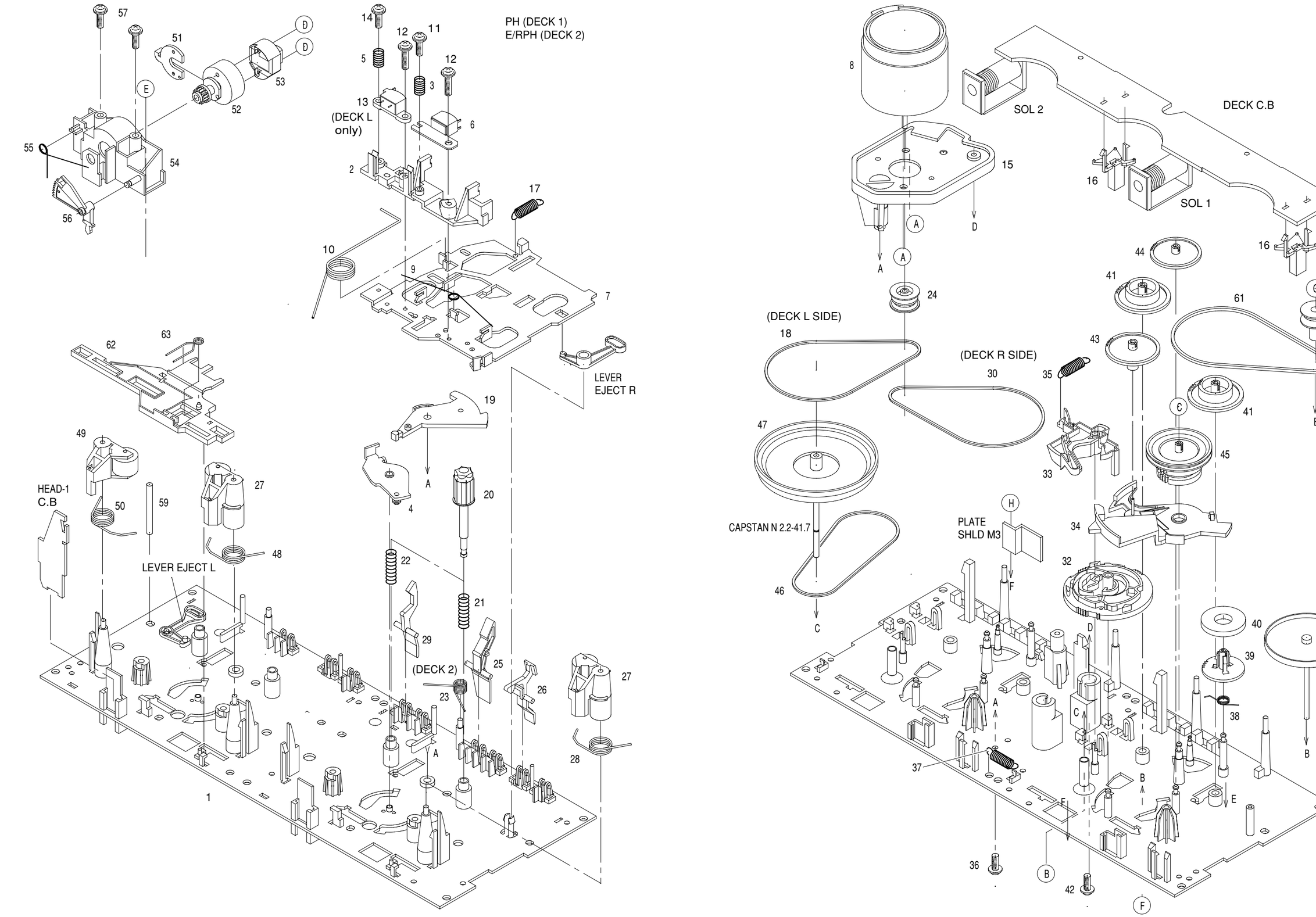
TAPE MECHANISM EXPLODED VIEW 1 / 1 <ZZM-3 YPR1NM>



TAPE MECHANISM PARTS LIST 1 / 1 <ZZM-3 YPR1NM>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT,MAIN M3
2	8Z-ZM3-235-010		BELT,MAIN L
3	8Z-ZM1-235-010		PULLEY,MOT
4	87-045-347-010		MOT,SHU2L 70
5	8Z-ZM1-232-010		GEAR,IDL FF/REW
6	8Z-ZM3-244-010		GEAR,CAM TD20
8	8Z-ZM1-290-010		FLY-WHL ASSY,ZZM-1
9	8Z-ZM3-231-010		SPR-T,TRIG
10	8Z-ZM3-213-010		CLR,MG
11	82-ZM3-616-010		RING MAGNET 4
12	8Z-ZM3-243-010		LEVER ASSY,HD UP
13	8Z-ZM3-238-010		SPR-T,HD UP
14	8Z-ZM3-219-010		GEAR,CAM M3
15	8Z-ZM3-206-010		LEVER,TRIG
16	8Z-ZM3-209-010		LEVER,CAM FR
17	8Z-ZM2-256-010		FLY-WHL ASSY,M3 R
18	8Z-ZM1-228-010		GEAR,SLIP T-UP B
19	8Z-ZM1-265-010		FELT,T-UP
20	8Z-ZM1-227-010		GEAR,SLIP T-UP A
21	8Z-ZM1-251-110		SPR-C,T-UP SLIP
22	8Z-ZM1-275-010		W-L,1,47-4-0.25
23	8Z-ZM1-257-010		SPR-C,F/R
24	8Z-ZM1-236-010		CLR,SLIP FF/REW
25	8Z-ZM3-226-010		SPR-C,FR M3
26	8Z-ZM3-250-010		GEAR,SLIP F/R A M3
27	8Z-ZM1-269-010		FELT,FF/REW 2
28	8Z-ZM1-238-110		GEAR,SLIP FF/REW B 2
29	8Z-ZM3-220-010		LEVER,FR M3
30	8Z-ZM3-205-010		LEVER,PLAY M3
31	8Z-ZM3-233-010		SPR-T,BRG M3
32	84-ZM2-227-310		SPR-C,AZIMUTH
33	87-A90-403-110		HEAD,RPH MS15R
34	87-A90-404-010		HEAD,EH LE15B
35	8Z-ZM3-239-010		SPR-E,FR
36	8Z-ZM3-211-010		LEVER,EJECT R
37	8Z-ZM3-225-010		LEVER,STOP
38	8Z-ZM3-221-010		LEVER,CAS
39	8Z-ZM3-234-010		SPR-T,LVR CAS
40	8Z-ZM3-223-010		SPR-C,REEL R M3
41	8Z-ZM1-225-110		GEAR,REEL R
42	8Z-ZM3-240-010		SPR-T,T-UP M3
43	8Z-ZM3-237-010		SPR-T,PINCH M3
44	8Z-ZM3-215-010		LEVER,PINCH M3
45	8Z-ZM1-261-110		ROLLER ASSY,PINCH
46	8Z-ZM1-226-010		GEAR,REEL L
47	8Z-ZM3-222-010		SPR-C,REEL L M3
48	8Z-ZM3-251-010		GEAR,IDL REW M3
49	8Z-ZM3-236-010		SPR-T,PLAY M3
50	82-ZM1-240-110		LVR,REC(*)
51	8Z-ZM3-216-010		LEVER,T-UP M3
52	87-B10-301-010		W-L,1.63-3.2-05 SLIT
53	8Z-ZM3-212-010		LEVER,EJECT L
54	8Z-ZM3-214-010		HLDR,IC
55	86-ZM3-605-110		CONN ASSY,8P -RPB
56	8Z-ZM3-203-010		CHAS ASSY,M3
A	84-ZM2-242-010		S-SCREW,AZ1-2-6.4
B	8Z-ZM2-220-110		V+2.6 ZZM-2

TAPE MECHANISM EXPLODED VIEW 1 / 1 <6ZM-3 PR2NM>



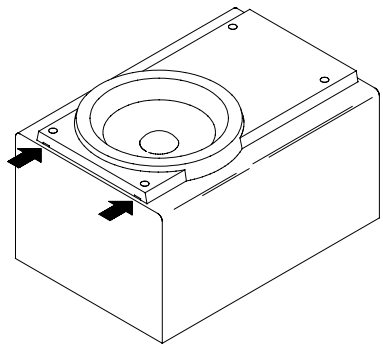
TAPE MECHANISM PARTS LIST 1 / 1 <6ZM-3 PR2NM>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-215-010		CHAS ASSY,RS
2	86-ZM3-202-010		BASE,HEAD S
3	86-ZM3-205-010		SPR-C,RPH S
4	82-ZM1-333-210		PLATE,LINK 2
5	86-ZM3-206-010		SPR-C,EH S
6	87-A90-403-010		HEAD,RPH MS15R
7	86-ZM3-201-010		CHAS,HEAD S(DECK L)
7	82-ZM3-206-210		BELT,R
8	87-045-347-010		MOT,SHU2L 70(M1)
9	82-ZM1-269-210		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	86-ZM3-209-010		S-SCREW,ASIMUTHS
12	86-ZM3-207-010		S-SCREW,RPH
13	87-A90-404-010		HEAD,EH LE15B
14	86-ZM3-208-010		S-SCREW,EH
15	86-ZM3-203-010		HLDR,MOTS
16	82-ZM1-245-210		HLDR,IC
17	82-ZM1-218-010		SPR-E,HB
18	86-ZM3-214-010		BELT,SUB RR
19	82-ZM1-222-210		LVR,PLAY
20	82-ZM1-217-410		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-010		SPR-T,CAS
24	82-ZM3-221-010		PULLEY,MOT 2M
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH
28	86-ZM3-204-010		SPR-T,PINCHDS
29	82-ZM1-240-110		LVR,REC (DECK 2)
30	86-ZM3-210-010		BELT,RS
32	82-ZM3-305-110		GEAR,CAM M2
33	82-ZM1-227-310		LVR,TRIG
34	82-ZM3-306-110		LVR,FR M2
35	82-ZM1-265-110		SPR-E,TRIG
36	87-761-073-410		VFT2+2.6-6 W/O SLOT
37	82-ZM1-255-310		SPR-E,LVR DIR
38	82-ZM1-322-010		SPR-T,FR60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM3-616-010		RING MAGNET 4
41	82-ZM1-216-310		GEAR,REEL
42	86-ZM3-213-010		S-SCREW,HLDR,MOT 3
43	82-ZM1-225-210		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-237-610		FLY-WHL ASSY,RW
47	09-001-420-010		FLY-WHL ASSY,R3W
48	82-ZM1-259-210		SPR-T,PINCH R
49	82-ZM1-341-110		LVR ASSY,PINCH L2
50	82-ZM1-258-210		SPR-T,PINCH L
51	82-ZM1-314-110		PLATE,HEAD
52	82-ZM1-208-310		HLDR,HEAD
53	87-A90-366-010		HEAD,PH YK50P-BF414
54	82-ZM1-207-810		GUIDE TAPE
55	82-ZM1-213-010		SPR-T,HEAD
56	82-ZM1-210-110		GEAR,HT
57	86-ZM4-206-010		S-SCREW AZIMUTH L
58	82-ZM1-234-310		FLY-WHL,L ASSY
59	82-ZM3-339-010		SHAFT,COUPLER N3
60	82-ZM3-335-210		PULLEY,COUPLER M3
61	86-ZM1-206-010		BELT,MAIN L
62	82-ZM1-266-110		LVR,DIR
63	82-ZM1-214-010		SPR-T,DIR
A	87-251-071-410		U+2.6-4
B	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
C	82-ZM3-334-010		PW,2.16-6-0.4
D	80-ZM6-207-010		V+1.6-7
E	85-ZM3-202-010		S-SCREW TG
F	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
G	87-B10-043-010		W-P,0.99-4-0.25 SLT
H	87-571-032-410		VIT+2-3

SPEAKER DISASSEMBLY INSTRUCTIONS

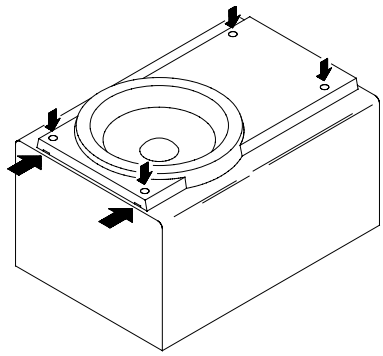
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



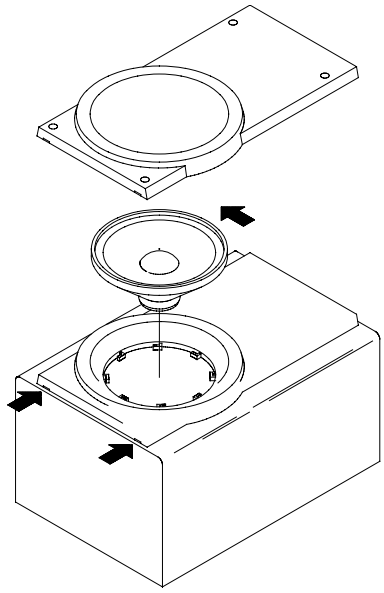
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

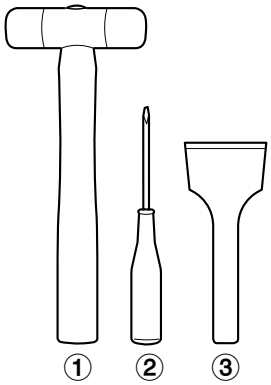


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

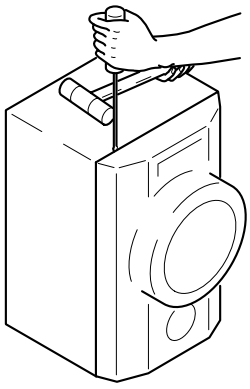


Fig-1

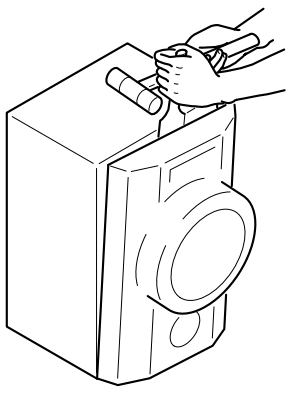


Fig-2

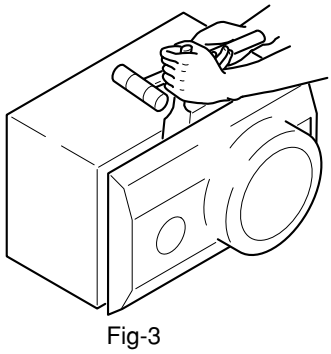


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST
SX-NSZ52 (Y1SL,YLSC2M)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSJ-001-010		PANEL,FR R
2	8A-NSJ-002-010		PANEL,FR L
3	8A-NSJ-003-010		GRILLE,FRAME ASSY
4	8A-NSJ-008-010		PROTECTOR,TWA
5	8A-NSJ-602-010		SPKR,W 130
6	88-NS5-605-010		SPKR,T 60<Y1SL>
6	8A-NSK-604-010		SPKR,TW 60<YLSC2M>
7	88-MS1-608-010		SPKR,CERAMIC
8	87-NS7-611-010		CORD,SPKR
9	8Z-NSY-003-010		CORD,BUSH

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NFX-901-110		IB,H(ECA)M -30<HT>
1	8A-NFX-949-010		IB,H(ECA)M -30<HS>
1	8A-NF9-930-010		IB,LH(P)CCE<LH>
2	87-043-115-010		ANT,FEEDER FM
3	87-A90-119-010		ANT,WIRE SW(5M)<HT>
⚠ 4	87-A91-017-010		PLUG,CONVERSION JT-0476<HT>
5	8Z-NF8-701-210		RC UNIT,RC-ZAS01<HS,HT>
5	8Z-NF9-701-210		RC UNIT,ZAS02<LH>
6	87-006-225-010		AM LOOP ANT NC2<HS,LH>
6	87-006-226-010		AM-LOOPANT C0<HT>

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
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